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# NHEP Year 8 Workplan

New Hampshire Estuaries Project

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# **New Hampshire Estuaries Project**

## **Year Eight Workplan**

**June 26, 2003**



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Portsmouth, NH 03801**

## Table of Contents

<b>Section I</b>	<b>Year Seven Goals .....</b>	<b>3</b>
<b>Section II</b>	<b>Accomplishments and Highlights .....</b>	<b>12</b>
<b>Section III</b>	<b>Ongoing Projects .....</b>	<b>14</b>
<b>Section IV</b>	<b>Year Eight Goals .....</b>	<b>18</b>
<b>Section V</b>	<b>Year Eight Implementation Activities.....</b>	<b>19</b>
	A. Water Quality Actions .....	19
	B. Shellfish Actions .....	21
	C. Land Use/Habitat Protection Actions.....	22
	D. Restoration Actions .....	24
	E. Education and Outreach Actions .....	25
	F. Monitoring Activities.....	27
	G. Undesignated Funds .....	28
	H. Matching Funds for Implementation Activities .....	28
	Summary Table .....	30
<b>Section VI</b>	<b>Project Management/Administration.....</b>	<b>31</b>
<b>Section VII</b>	<b>Year Eight Grant Budget .....</b>	<b>33</b>
 <b>Appendix 1 Years 5, 6, and 7 Project Information</b>		
<b>Appendix 2 Leveraged Funds</b>		
<b>Appendix 3 Travel Report</b>		

## Section I Year Seven Goals

The New Hampshire Estuaries Project (NHEP) set the following five goals for Year Seven implementation, as described in last year's workplan:

1. Continue implementation of the approved NH Estuaries Project *Management Plan*
2. Continue implementation of the monitoring plan and ongoing environmental assessments
3. Continue outreach to various interest groups and organizations in order to build a constituency supportive of *Management Plan* implementation
4. Report on progress through the development of an Environmental Indicators Report that reports on environmental trends, and a CCMP Report Card that reports on programmatic progress
5. Hold a State of the Estuaries Conference in Fall 2003

Progress toward these goals over the course of the year (July 2002-June 2003) is reported below:

### **GOAL 1: Continue implementation of the NH Estuaries Project *Management Plan***

The NHEP successfully met this goal over the course of the year. In three years of *Management Plan* implementation, the NHEP has initiated activities for all of its 44 highest priority action plans. Of these, four have been completed (Action Plans EDU-03, LND-01, LND-26, LND-27). For each chapter in the *Management Plan*, NHEP has initiated and completed the following highest priority actions.

<u>Chapter</u>	<u># Highest Priority Actions</u>	<u># Completed</u>
Water Quality	10	0
Shellfish	8	0
Land Use	21	3
Restoration	3	0
Education	<u>2</u>	<u>1</u>
	<b>44</b>	<b>4</b>

The years Five, Six, and Seven grants provide approximately \$2,424,900 for project implementation. To date roughly \$1,949,800 from these grants has been awarded through contracts for implementation projects since the inception of each of the respective grants. The balance, roughly \$475,100, is available from these three grants for implementation projects, which are currently under development (i.e., contracts are in the works, or projects will be selected through upcoming project solicitations). All ongoing projects are listed in Section III: Ongoing Projects. All projects initiated since 2001 are listed in Appendix 1.

Specific implementation activities that occurred over the course of the year to meet this

goal are listed below. Further details of each project are included in the table of ongoing projects in Section III of the Workplan.

#### Water Quality Projects

- 2003 storm sewer mapping grants to communities (Year 7 grant funds)
- 2003 illicit discharge detection and elimination grants to communities (Year 7 grant funds)
- 2003 Peirce Island pool discharge elimination project (Year 7 grant funds)
- 2003-2004 stormwater and erosion control training and certification program (Year 7 grant funds)

#### Shellfish Projects

- 2003 support for the NH Department of Environmental Services Shellfish Program (Year 6 grant funds), including contracts with NH DES, NH Department of Health and Human Services, and UNH Great Bay Coast Watch for volunteer activities to support the Shellfish Program
- Development of ideas for shellfish restoration/enhancement projects. Year 6 and 7 grant funds remain in reserve pending project selection through the Request for Proposals process. The Shellfish Team recently finalized plans for development of two Requests for Proposals (one for clams, one for oysters). Solicitations for projects will be developed and issued by the NHEP in fall 2003.

#### Land Use/Habitat Protection Projects

- 2003 update to the conservation lands data layer in the GRANIT system (Year 7 grant funds)
- 2003-2004 support for the Great Bay Resource Protection Partnership to conduct a habitat protection prioritization study for several watersheds (Year 7 grant funds)
- Site Planning Roundtable Pilot Project in 2003-2004 to implement Action Plan LND-02 (Year 7 grant funds)
- Shoreline protection projects selected through a Request for Proposals to be issued by the NHEP during summer 2003 (Year 7 grant funds)
- Support for the Natural Resources Outreach Coalition in 2004 (Year 7 grant funds), including funding for the coordinator and for community implementation projects

#### Restoration Projects

- Pickering Brook restoration project with Ducks Unlimited (Year 6 and 7 grant funds)

#### Education/Outreach Projects

- 2002 "Be Part of the Solution" Campaign (Year 5 grant funds)
- Local Grants program in 2003 (Year 6 grant funds) – 7 projects were selected in response to the fall 2002 solicitation and are being funded in 2003:
  1. Aquaculture Education and Research Center: Shellfish Steward Program – a dockside shellfish growing program

2. Exeter River Local Advisory Committee: Alewife Festival 2003 – support for advertising and festival materials
  3. Great Bay Coast Watch: Volunteer Training Program – assistance to update and conduct quality assurance training for volunteers
  4. Moose Mountain Regional Greenways: Prime Wetlands Designation – wetlands inventories and outreach to conservation commissions
  5. Portsmouth Middle School: Habitat Restoration Education Project – documentation of bird activity on South Mill Pond by sixth grade students
  6. Rockingham County Conservation District: Hampton Harbor Watershed Protection – a project to assist communities with land protection through workshops, resources maps, and technical assistance
  7. Seacoast Land Trust: Natural Resource Mapping – a project to map and prioritize lands and resources for protection in Greenland
- Estuaries Month 2002 and 2003 (Year 5 grant funds)
  - Redesign of NHEP website in 2003 (Year 6 grant funds)
  - Design and printing of the *State of the Estuaries Report* (Year 6 grant funds)
  - Printing of the NHEP “Report Card” (Year 6 grant funds)
  - State of the Estuaries Conference and Estuaries Expo (Year 6 grant funds)

#### Monitoring Projects

- Monitoring projects in 2003, including Gulfwatch monitoring, ambient rivers monitoring, environmental sensitivity index mapping, oyster disease testing, oyster and clam bed assessments, eelgrass mapping, nutrient monitoring, and datasonde deployment (Year 6 grant funds)
- Development of Quality Assurance Project Plans (QAPPs) for NHEP-funded projects in 2003 (Year 5 grant funds)
- NHEP Coastal Watershed Scientist funding in 2003 (Year 6 grant funds)

#### **GOAL 2: Continue implementation of the Monitoring Plan and ongoing environmental assessments**

The NHEP met this goal, making significant progress in implementing the Monitoring Plan and developing a series of comprehensive environmental indicator reports as well as other monitoring reports.

EPA approved the NHEP Monitoring Plan in May 2002. Over the last year, several projects were undertaken to further refine monitoring goals and objectives for the NHEP using Supplemental Funds for 2002. Three completed monitoring projects involved monitoring nitrogen discharged from wastewater treatment plants, monitoring dissolved oxygen levels using datasondes, and mapping eelgrass beds in Great Bay. In addition, a number of new projects to provide data, as specified in the Monitoring Plan, have been recently initiated (new projects are listed above, under Goal 1). These activities represent projects that are part of the annual monitoring program and special projects that provide data periodically for assessments that occur every several years.

The NHEP Technical Advisory Committee (TAC) continued to play an integral role in the

development and implementation of the Monitoring Plan. The TAC assists with analyzing and interpreting monitoring data, formulating recommendations for management strategies, evaluating and revising the Monitoring Plan and goals, and identifying data gaps and research needs. The TAC met five times from July 2002 – June 2003, and provided valuable input on the monitoring program work products described below.

The NHEP Coastal Scientist completed the report, *Evaluation of the Monitoring Programs for the NHEP Monitoring Plan*, in September 2002. The report evaluates monitoring programs for the NHEP's environmental indicators to determine if sufficient data are being collected for each indicator and to identify any data gaps. Monitoring programs for each indicator were evaluated to assess if correct parameters are being measured and if measurements are being made in the correct locations and frequently enough to provide good statistical power. The results of the evaluation were used to revise the Monitoring Plan and to prioritize monitoring projects for funding in 2003.

The NHEP Coastal Scientist produced a *Summary of Coastal and Estuarine Monitoring Programs in New Hampshire*, which identifies various monitoring programs, which relate to the coastal watershed. The October 2002 summary includes information on parameters sampled, sampling location and frequency, duration of the program, and contact information for each monitoring program. The summary will be updated annually.

The NHEP Coastal Scientist, with input from the TAC, produced a series of four indicator reports over the last year. This is the first time such data has been compiled, analyzed, and presented by the NHEP. Individual indicator reports include:

- Shellfish Indicator Report – 5 environmental indicators and 7 supporting variables
- Water Quality Indicator Report – 10 environmental indicators and 4 supporting variables
- Habitats and Species Indicator Report – 6 environmental indicators and 6 supporting variables
- Land Use and Development Indicator Report – 4 environmental indicators

Note: 5 environmental indicators and 3 supporting variables from the Monitoring Plan had insufficient data to be included in these reports. Data for these indicators are being collected, and these additional indicators will be included in future indicator reports.

The indicator reports are the basis for the NHEP 2003 *State of the Estuaries Report*, which will highlight a number of key indicators.

The Monitoring Plan was revised in March 2003 and submitted to EPA. The revision involved development of specific indicators and supporting variables for the "Species and Habitats" chapter. All of these indicators had been listed as "research indicators" in the May 2002 version of the Monitoring Plan.

The NHEP Coastal Scientist continued to manage the QAPP development and approval process for all relevant NHEP projects. Funding and scheduling time for the QAPP development and approval process will be integrated in all future contracts for data collection and other relevant activities. By the end of 2003, the NHEP will develop a program QAPP for all the elements of the NHEP Monitoring Program.

In August 2003, the NHEP will participate in the Northeast Rapid Assessment Survey for marine invasive species. This program is being coordinated by the Massachusetts Bays Program and MIT SeaGrant with input from the northeast National Estuary Programs. The NHEP identified 2 sites, volunteers, and lab space for the New Hampshire portion of the assessment.

**GOAL 3: Continue outreach to various interest groups and organizations in order to build a constituency supportive of *Management Plan* implementation**

The NHEP met this goal by conducting a number of outreach activities, including an outreach campaign, to reach stakeholders and other interest groups. Outreach activities over the last year consisted of a new outreach campaign and collateral materials and many other activities to promote the NHEP *Management Plan* implementation, and estuarine stewardship in general.

“Be Part of the Solution” Campaign – In August 2002, NHEP launched an outreach campaign promoting six actions people can take to protect and enhance the health of the estuaries. The campaign featured a 60-second radio spot that aired over 1,000 times on seacoast area stations, a large 4-color poster depicting the coastal watershed’s natural resources, a brochure, event posters to promote partners’ activities for Estuaries Month, and a press packet for local media. The radio spot highlighted the six campaign actions, and it directed listeners to locations where they could pick up the watershed posters. Over 280 posters were given away as a result. The NHEP Director was interviewed for a local newspaper story, and completed a 20-minute radio interview, which ran on a local community affairs show.

Estuaries Month 2002 – Estuaries Month (September – October 2002) consisted of 18 NHEP funded activities promoting the objectives of the *Management Plan*. Each organization was awarded up to \$200 to assist with their outreach activity. Examples of activities included Lamprey River boat tours, school field trips to the Sandy Point Discovery Center, land protection and conservation workshops, and river walks. Estuaries Month promotion and support has become an annual activity for the NHEP.

Smart Growth Roundtable – NHEP convened the Coastal Watershed Smart Growth Roundtable in September 2002, which was attended by over 100 people. The Forum provided information on smart growth and resources for communities to use, including NHEP supported initiatives such as the Natural Resources Outreach Coalition. The NHEP used the event to distribute “Be Part of the Solution” campaign materials. In addition, NHEP supported the development of the NH Office of State Planning (OSP)



“Smart Growth Toolkit,” which was distributed on CD-ROM to seacoast communities. OSP followed up with additional support to communities at a regional smart growth workshop in Durham in May. The toolkit provides planning information and assistance which should further the goals of the *Management Plan* related to smart growth.

Local Grants Program – The NHEP initiated its 2003 local grants program by soliciting project proposals in fall 2002. Ten organizations submitted proposals, and seven were selected (projects are listed under Goal 1 of this section). Approximately \$50,000 was awarded in total. The Local Grants Program is an effective way to support initiatives that implement the *Management Plan*.

Coastal Watershed Forum – The NHEP and NH Coastal Program co-hosted this annual one-day forum for all agencies, organizations, municipalities, and other groups in the watershed that are working on environmental projects. This year’s forum was held March 11 at the Seacoast Science Center and attended by over 60 stakeholders. Three speakers gave presentations on their projects in the Coastal Watershed. All participants had the opportunity to exhibit displays about their work. The NHEP Director gave an overview of the program’s priority focus areas, and a NHEP display was exhibited.

Septic System Outreach – The NHEP produced outreach materials targeting septic system owners, including a file folder with information about maintenance of systems and a reminder card with a refrigerator magnet to remind homeowners about annual system care and routine pumping. Materials are being mailed to septic system owners residing on shoreline property. The shoreline property owners database is providing the addresses for the mailing. In preparation for the mailing, the database was updated by the NHEP Planning Technician in 2003. Over 800 septic system owners will receive the outreach materials in 2003.

Local Events and Meetings – The NHEP routinely participates in events and meetings to promote project activities and *Management Plan* implementation. Over the last year, NHEP staff provided project information via presentations and/or displays at the Discovery Cruise for Local Decision-makers, Great Bay Coast Watch monthly meeting, Exeter River Local Advisory Committee Alewife Festival, Blue Ocean’s World Oceans Day, NH Office of State Planning staff meeting, and NH Department of Environmental Services Watershed Management Bureau meeting.

Website – The NHEP Project Assistant has continually improved the website over the past year by updating the design and content. The website provides downloadable reports, information on upcoming events, facts about the estuaries, and contact information. The NHEP hired a website design firm to redesign the site, and a new site will be launched in summer 2003. In addition to current content, the site will contain volunteer opportunities, maps of the coastal watershed, and information on grant programs, and it will be compliant with State website requirements for accessibility.

Tidelines – The NHEP, in conjunction with the NH Coastal Program, produces the *Tidelines* newsletter three times per year. Eleven hundred copies of each newsletter

edition are printed, and it is mailed to a list of about 1000 people, including agency personnel, citizens, school teachers, and municipal officials throughout the watershed.

*Estuaries Update* – This electronic newsletter was created in May 2003 and is intended to provide brief updates on activities, projects, and upcoming events to NHEP stakeholders and partners. The initial distribution list is 90 people. Interested individuals will be able to subscribe to the *Estuaries Update* email list on the NHEP website. Past editions of newsletter will be archived on the NHEP's website.

*Mailing Inserts* – The NHEP inserted an informational flyer into the Strafford County Conservation District's (SCCD's) February newsletter that included information about the NHEP outreach campaign, Local Grants Program, Estuaries Month grants, and NHEP-funded activities of the Natural Resources Outreach Coalition and The Center for Land Conservation. This is the SCCD's most comprehensive newsletter edition (3,300 copies), which was mailed to municipal planners, conservation commissioners, public works officials, farmers, planning commissions, watershed groups, and volunteers.

*Press Releases* – The NHEP periodically produces press releases and requires grantees to create and send at least one press release that highlights their NHEP-funded project activities and how their work relates to the NHEP *Management Plan*.

*Funding Credit and Logo* – The NHEP requires grantees to acknowledge NHEP funding and include the NHEP logo on any work product that will be distributed publicly. This ensures the NHEP's name and logo is used in association with its partners' outreach materials such as brochures, workshop announcements, reports, maps, and displays.

**GOAL 4: Report on progress through the development of an Environmental Indicators report that reports on environmental trends, and a CCMP Report Card that reports on programmatic progress**

This goal will be met by the end of 2003. Planning for these two key reports is well underway:

*State of the Estuaries Report*

The *State of the Estuaries Report* will present information on the health of the coastal watershed by highlighting data on key environmental indicators. A total of twelve indicators from the four individual NHEP indicator reports (shellfish, water quality, habitats and species, and land use and development) have been selected for inclusion in the report. The NHEP Coastal Scientist provided data for the report.

The 2003 *State of the Estuaries Report* will be significantly different from the previous report (2000). The 2003 report presents information on specific indicators that have been developed, monitored, and analyzed as defined in the NHEP Monitoring Plan. The 2003 report will include monitoring questions, measurable NHEP goals, data and interpretation, and examples of NHEP projects that address environmental indicators.

A firm was selected by the NHEP to design the 2003 *State of the Estuaries Report*. The Management Committee and Technical Advisory Committee will review a draft over the summer and the report will be published by September 2003, in time for distribution at the State of the Estuaries Conference in October.

#### CCMP Report Card

The *CCMP Report Card* will report on three aspects of the NHEP *Management Plan* implementation:

- Environmental Indicators: data will be provided on the status and goal for each environmental indicator. Environmental indicators, which are defined in the Monitoring Plan, are measurements that characterize environmental or ecosystem quality. The Report Card will highlight the NHEP's progress toward meeting environmental goals.
- Administrative Indicators: data will be provided for 15 administrative indicators, which describe actions undertaken by the NHEP toward achieving a specific goal or objective. The Report Card will outline current status and progress to date on administrative milestones.
- Completion Ranking for Action Plans: a ranking will be assigned for each Action Plan based on degree of completion – No Progress (0%), Minimal (1-25%), Some (26-50%), Moderate (51-75%), Substantial (76-99%), and Complete (100%).

The NHEP Coastal Scientist provided data for the environmental indicators section; the Director and Planning Technician compiled data for the administrative indicators; and the completion rankings were analyzed and assigned based on information contained in the NHEP project tracking database. The database was recently updated to include current information on “partner projects” – those projects completed in the coastal watershed that are relevant to the *Management Plan* but not funded by the NHEP.

In June 2003, content was provided to the NHEP Project Assistant, who is responsible for the layout and design of the Report Card. The Management Committee, Technical Advisory Committee, and Project Teams will review drafts, and the final Report Card will be published by October 2003, in time for the State of the Estuaries conference.

#### **GOAL 5: Hold a State of the Estuaries Conference in Fall 2003**

This goal will be met by the end of October 2003. Planning began for the conference in January 2003 with a meeting of the conference planning committee: Jennifer Hunter (NHEP Director), Dave Kellam (NHEP Project Assistant), Phil Trowbridge (NHEP Coastal Scientist), and Brian Smith (Great Bay National Estuarine Research Reserve's Research Coordinator and NHEP Management Committee member). The planning committee has met periodically since then. The conference is a collaboration of the NHEP and GBNERR. Two different meetings will be conducted in order to appeal to a diverse audience: Estuaries Expo on October 18 and the State of the Estuaries Conference on October 21 & 22. The combined budget for the two events is \$14,500 (\$12,000 NHEP funds and \$2,500 GBNERR).

### Estuaries Expo

The Expo will be held Saturday, October 18 from 10:00 am - 3:00 pm at the Urban Forestry Center in Portsmouth. It is intended to be a public forum at which interested community members can learn and ask questions about the environmental health of the estuaries and volunteer opportunities in the region. Local media will be solicited to report on the event. Other Expo activities will include mini-workshops paralleling the “Be Part of the Solution” outreach campaign, a presentation about bald eagles on Great Bay, and interpretive walks along adjacent salt marsh habitat.

### State of the Estuaries Conference

This two-day technical conference will be held on Monday, October 20 and Tuesday, October 21 at Yoken’s Conference Center in Portsmouth. The conference will highlight information from the 2003 *State of the Estuaries Report*, results of NHEP-funded projects, and resources available to assist communities with natural resources protection and planning. The target audience for the conference is community board members, municipal officials, researchers, state and regional agency representatives, consultants, NHEP grantees and partners, and other interested stakeholders. Approximately 125 people per day are anticipated.

Topics have been identified for conference sessions. Day 1 will feature two concurrent tracks – Track 1 on NHEP environmental indicators and Track 2 on issues of interest (e.g., invasive species, groundwater resources, stormwater management, etc.). Day 2 tracks are geared for community board members and researchers, respectively. Track 1 will feature information of most interest to planning board and conservation commission members, including project results and technical assistance resources related to smart growth, land protection planning, and wetlands. Track 2 will be a working session for researchers to develop collaborative research efforts for Great Bay. This session, facilitated by GBNERR, will identify research gaps to help develop future interdisciplinary ecosystem-based research efforts.

## **Section II**

### **Summary of Accomplishments and Highlights**

<b>July 2002-June 2003</b>	Twenty-one new projects/contracts initiated  Twenty-five projects completed and Final Reports received (note: six additional projects are due to end June 30, 2003)
<b>August 2002</b>	NHEP Director Jennifer Hunter begins  Technical Advisory Committee Meeting  “Be Part of the Solution” Outreach Campaign launched
<b>September 2002</b>	Management Committee Meeting  Water Quality Team Meeting  Implementation Review conducted by EPA  Smart Growth Roundtable for Seacoast Communities  NH Estuaries Month (September – October): 18 organizations participate  <i>NHEP Report: Evaluation of Monitoring Programs for the NHEP Monitoring Plan</i> completed  <i>NHEP Environmental Indicators Report: Shellfish</i> completed
<b>October 2002</b>	Ten proposals received in response to NHEP’s Request for Proposals for the annual Local Grants Program; seven selected for funding by NHEP review team
<b>November 2002</b>	Land Use/Habitat Protection Team Meeting  Technical Advisory Committee Meeting
<b>December 2002</b>	Management Committee Meeting  Technical Advisory Committee Meeting  <i>NHEP Environmental Indicators Report: Water Quality</i> completed
<b>January 2003</b>	NHEP Project Assistant Dave Kellam begins

Planning Committee formed and convened for the 2003 State of the Estuaries Conference (October 21 & 22, 2003) and 2003 Estuaries Expo (October 18, 2003)

**February 2003**

Shellfish Team Meeting

Technical Advisory Committee Meeting

**March 2003**

Management Committee Meeting

*NHEP Monitoring Plan* revised

**April 2003**

NHEP Planning Technician Matt Craig begins

Water Quality Team Meeting

Land Use/Habitat Protection Team Meeting

*NHEP Environmental Indicators Report: Habitats and Species* completed

*NHEP Environmental Indicators Report: Land Use and Development* completed

Seven firms submit proposals in response to NHEP's Request for Proposals to design *State of the Estuaries Report*; design firm chosen by review team

**May 2003**

NHEP electronic newsletter "Estuaries Update" first released

Kickoff meeting with contractor for revised NHEP website

**June 2003**

Shellfish Team Meeting

Technical Advisory Committee Meeting

Management Committee Meeting

"Septic System Outreach" mailing to all tidal shoreline property owners with septic systems initiated

Content drafted for NHEP reports: *2003 State of the Estuaries Report* and *Progress Report Card*

## **Section III Ongoing Projects**

Information on ongoing Year 5, 6, and 7 implementation projects is included below. The Year 5 grant expires 6/30/04\*; the Year 6 grant terminates on 12/31/05\*; and the Year 7 grant terminates 12/31/04.

The following table presents information for all projects currently ongoing (open as of 6/30/2003) and includes:

**Workplan identification number**

**Project Activity**

**Contractor/Organization**

**Relevant Action Plan**

**Project start and end dates**

**NHEP funds for the project**

**Matching funds**

**Other project funds**

Specific project information is provided to EPA in quarterly reports, which include project activities conducted each quarter.

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\* Pending approval by EPA. Grant amendments seeking time extensions were submitted to EPA in May 2003.

## Ongoing Projects, as of 6/30/03

Workplan ID	Project Activity	Contractor/Organization	Relevant Action Plan	Start date	End date	NHEP Funds	Match	Other Funds
01-C-9	Municipal Assistance for Funding Land Protection Projects	SPNHF/Center for Land Conservation Assistance	LND-28	5/15/2002	12/31/2003	\$14,400	\$0	
01-E-8	Estuaries Month Grants 2003	Rockingham Planning Commission	EDU-05	6/4/2003	12/31/2003	\$5,375	\$0	
02-A-1	WWTP pollutant loading study and environmental indicator development	NH DES Watershed Assistance Section	Monitoring, WQ-01, WQ-03	2/20/2002	12/31/2003	\$33,990	\$34,130	
02-A-2	Illicit Connection Identification/Removal and Storm Drainage Mapping Grants	NH DES Watershed Assistance Section	WQ-04B, WQ-04C	2/20/2002	12/31/2003	\$50,000	\$50,000	
02-A-3.2	Volunteer Support for Shellfish Program Activities	UNH Great Bay Coast Watch	EDU-05, SHL-05, SHL-06, SHL-14, WQ-05	1/1/2003	12/31/2003	\$10,000	\$10,000	
02-A-4	Bracket Road Sewer Extension	City of Portsmouth	WQ-07	2/20/2002	12/31/2003	\$30,000	\$170,000	
02-A-5	Watershed Assistance	NH DES Watershed Assistance Section	WQ-08	2/20/2002	12/31/2003	\$20,450	\$15,000	
02-A-8	Dennett Street Exfiltration/Illicit Discharge Elimination Project	City of Portsmouth	WQ-07	8/14/2002	12/31/2003	\$35,000	\$280,525	
02-B-1.10	Ambient Water Quality Analysis in 2003	NH DHHS	SHL-01, SHL-04, SHL-06	4/2/2003	12/31/2003	\$15,732	\$34,788	
02-B-1.11	Shellfish Meat Coliform Testing in 2003	NH DHHS	SHL-01, SHL-04, SHL-06	4/2/2003	12/31/2003	\$18,470	\$3,430	
02-B-1.12	Shellfish Tissue Monitoring for PSP in 2003	NH DHHS	SHL-01, SHL-04, SHL-06	4/2/2003	12/31/2003	\$5,200	\$6,200	
02-B-1.2	Shellfish Program Admin in 2003	NH DES Shellfish Program	SHL-01, SHL-04	3/19/2003	12/31/2003	\$14,520	\$50,000	
02-B-1.3	Water Quality Monitoring	NH DES Shellfish Program	SHL-05	3/19/2003	12/31/2003	\$6,200	\$0	
02-B-1.4	Sanitary Surveys	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$23,206	\$0	
02-B-1.5	Pollution Evaluation and Analyses	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$3,240	\$0	
02-B-1.6	Wet Weather Sampling	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$1,770	\$0	



02-B-1.7	Follow-up Pollution Source Identification	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$2,250	\$0	
02-B-1.8	Hampton Harbor Dry Weather Sampling	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$1,600	\$0	
02-B-1.9	Sanitary Surveys	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$7,812	\$0	
02-B-2	Monitoring at 3 GulfWatch sites	NH DES	Monitoring, SHL-06	3/19/2003	12/31/2003	\$5,400	\$0	
02-B-7	Dockside Shellfish Aquaculture Project	Aquaculture Education Resource Center	EDU-01, EDU-03, EDU-05, SHL-15	3/5/2003	3/31/2004	\$10,000	\$13,850	
02-C-3.1	NROC Coordination in 2003	UNH Cooperative Extension	LND-05	1/1/2003	12/31/2003	\$12,650	\$12,650	\$80,000
02-C-3.2	NROC Community Projects in 2003	3 Communities TBD	LND-05	6/1/2003	12/31/2003	\$15,000	\$15,000	\$20,000
02-C-3.3	Squamscott Regional NROC Program	Rockingham Planning Commission	LND-05	4/3/2002	12/31/2003	\$10,000	\$20,000	\$30,000
02-C-4	Hampton Harbor Groundwater Study	UNH	LND-18	2/3/2002	12/31/2003	\$57,275	\$57,275	
02-C-5.2	Habitat Protection Technical Assistance	NH F&G Nongame and Endangered Wildlife Division	LND-32, LND-34	4/3/2002	12/31/2003	\$15,000	\$19,320	\$1,470
02-C-5.3	Land Protection Transaction Fund	SPNHF/Center for Land Conservation Assistance	LND-15, LND-29, LND-36	5/15/2002	12/31/2003	\$44,000	\$44,000	
02-C-5.5	Outreach and Technical Assistance for Land Protection	BearPaw Regional Greenways	LND-29, LND-32, LND-36	3/20/2002	12/31/2003	\$10,773	\$10,773	
02-C-5.7	Land Conservation Assistance and Workshops	Rockingham County Conservation District	LND-29, LND-33, LND-36	5/15/2003	12/31/2003	\$6,400	\$6,900	
02-C-7	Resource Mapping in Greenland	Seacoast Land Trust	EDU-03, LND-06, LND-15, LND-36	2/19/2003	12/31/2003	\$3,625	\$5,018	
02-C-8	Hampton Harbor Watershed - Land Protection	Rockingham County Conservation District	EDU-03, LND-29, LND-33, LND-36	3/19/2003	3/31/2004	\$9,868	\$14,100	
02-C-9	Prime Wetlands Designation and Training	Moose Mt. Regional Greenways	EDU-03, LND-25, LND-25B, LND-25D	3/5/2003	3/31/2004	\$10,000	\$20,000	
02-D-2	Pickering Brook Restoration Project (construction)	Ducks Unlimited	EDU-05, Monitoring, RST-02, RST-06	5/21/2003	12/31/2004	\$25,000	\$40,000	\$79,509
02-E-1.1	Habitat Restoration Education Project	Portsmouth Middle School	EDU-03, EDU-05	2/19/2003	7/31/2003	\$5,725	\$3,300	

02-E-1.2	Alewife Festival 2003	Exeter River LAC	EDU-02, EDU-03, EDU-05	2/5/2003	12/31/2003	\$5,250	\$7,672	\$7,000
02-E-1.3	GBCW Volunteer Training in 2003	UNH Great Bay Coast Watch	EDU-03, EDU-05	3/19/2003	12/31/2003	\$5,000	\$5,000	
02-E-4	Design of the State of the Estuaries Report	Idea Outfitters	EDU-01	5/21/2003	9/22/2003	\$3,925	\$0	
02-E-7	Website Design	PixelMEDIA	EDU-01	5/5/2003	9/1/2003	\$15,000	\$0	
02-M-4	2003 Monitoring Projects: Shellfish Assessment, Nitrogen, Eelgrass	UNH Jackson Estuarine Lab	Monitoring	2/19/2003	12/31/2003	\$41,200	\$41,200	
02-M-4.1	QAPPs for Monitoring Projects in 2003	UNH Jackson Estuarine Lab	Monitoring	2/19/2003	12/31/2003	\$5,000	\$0	
02-M-5	Oyster Disease Assessment	NH F&G Marine Fisheries Division	Monitoring	3/1/2003	12/31/2003	\$500	\$500	
02-M-6	Environmental Sensitivity Index Maps	NH DES Oil Spill Program	Monitoring, WQ-12A	3/19/2003	12/31/2003	\$40,000	\$130,000	
02-M-7	Sampling at 7 sites in 2003	NH DES Ambient Rivers Program	Monitoring	3/19/2003	12/31/2003	\$9,000	\$0	
02-Staff-1	NHEP Coastal Scientist Position	NH DES	Monitoring	1/1/2003	12/31/2003	\$65,061	\$0	\$21,687
03-A-1	Storm Sewer Mapping Grants	NH DES Watershed Assistance Section	WQ-04A, WQ-04B, WQ-04C	3/19/2003	12/31/2004	\$40,000	\$40,000	
03-A-2	Illicit Connection Identification and Removal Grants	NH DES Watershed Assistance Section	WQ-04A, WQ-04C	3/19/2003	12/31/2004	\$40,000	\$40,000	
03-A-3	Peirce Island Pool Direct Discharge Elimination Project - City of Portsmouth	NH DES Watershed Assistance Section	WQ-04C, WQ-06, WQ-07	3/19/2003	12/31/2003	\$15,000	\$45,000	
03-A-4	RCCD project to revise the Stormwater Mgmt/Erosion Control Handbook and develop certification program	NH DES Watershed Assistance Section	WQ-09, WQ-10	3/19/2003	6/30/2004	\$15,000	\$0	
03-B-1	DES Shellfish Program in 2004	NH DES Shellfish Program	SHL-01, SHL-05, SHL-06	1/1/2004	12/31/2004	\$50,000	\$50,000	
03-C-1	Update to GRANIT Conservation Lands Dataset	UNH Complex Systems Research Center	LND-06, LND-29, LND-33	5/21/2003	3/31/2004	\$20,000	\$20,000	
03-C-4	Site Specific Program Research	NHEP Staff	LND-09A, LND-09B, LND-21	5/1/2003	12/31/2003	\$0	\$0	
03-D-1	Pickering Brook Restoration Project (monitoring)	Ducks Unlimited	EDU-05, Monitoring, RST-02, RST-06	5/21/2003	12/31/2004	\$5,000	\$20,000	

## **Section IV Year Eight Goals**

The following is a summary of the main elements of the NHEP Year Eight Workplan. The Workplan and its activities are designed to accomplish the following goals:

### **1. Continue implementation of the NH Estuaries Project *Management Plan***

The NHEP has made substantial progress implementing its *Management Plan* in its first three years of implementation. The NHEP *Management Plan* lists 98 separate Action Plans to protect and improve the environmental quality of the State's estuaries. These Action Plans fall into the categories of Water Quality, Land Use and Habitat Protection, Shellfish Resources, Habitat Restoration, and Public Education/Outreach. Implementation activities for all 44 of the 98 Action Plans, which have been designated as "highest" priority for implementation, have been initiated.

### **2. Continue implementation of the NHEP Monitoring Plan and ongoing environmental assessments**

The NHEP has a comprehensive Monitoring Plan in place, which outlines data to be collected and analyzed so that environmental indicators can be tracked and evaluated. The monitoring program consists of ongoing annual monitoring projects as well as special projects that provide monitoring data less frequently.

### **3. Develop and implement an overall Communications Plan, which includes strategies and activities supporting *Management Plan* implementation**

The NHEP Project Assistant will develop a strategic communications plan to improve the recognition of the NHEP by key audiences and target NHEP outreach activities and resources effectively.

### **4. Review *Management Plan* Action Plans, and identify new priority items**

The NHEP Director will work with the Project Teams to assess the status of *Management Plan* Action Plans and identify new topic areas for the NHEP's involvement. The 2003 *CCMP Report Card* will be used by the Project Teams and Management Committee to assess relative completion of action plans.

### **5. Undertake actions to address the EPA's areas of concern, outlined in the March 10, 2003 Implementation Review Findings Letter**

The EPA Findings Letter listed eight challenges "where increased attention or a reassessment of priorities might be merited." The NHEP Director will work with the Management Committee, subcommittees, and staff to evaluate the EPA's comments and develop recommendations for improvement.

## **Section V**

### **Year Eight Implementation Activities**

Working with the Project Teams and Management Committee, the NHEP Director developed the Year Eight Workplan and implementation activities. The Management Committee reviewed and approved budget items at its March 2003 meeting and approved the final Year Eight Workplan in June.

Some projects planned for implementation in 2004 are funded from previous grants. Shellfish restoration and management activities are funded from the Year Six and Year Seven grants (funds were designated for shellfish management, but specific projects have not yet been identified). Land use and habitat protection projects in 2004 are being funded with the previous year's grant, as specified in the Year Seven Workplan. Details of these projects funded with previous grants are included in the Year Eight Workplan (below).

New projects in the areas of water quality, habitat restoration, and outreach are included in the Year Eight Workplan. Annual monitoring projects for 2004 also are included. The completion date for all projects funded with the Year Eight grant is December 31, 2005.

Contractors for each project will be determined in one of two ways: 1) Where a lead entity is identified in the *Management Plan*, a sole source Memorandum of Agreement or contract may be negotiated; and 2) Where a responsible party does not already exist, requests for proposals will be released and responses evaluated to select project contractors. Project Team members and the Management Committee members will review and approve projects prior to award.

The Workplan is divided into sections to parallel priorities of the Management Plan: Water Quality, Shellfish Resources, Land Use/Habitat Protection, Habitat Restoration, and Outreach/Education. Monitoring activities are also included. For each project or activity an alphanumeric code is generated for tracking. The first two digits refer to the year of funding (01 is the Year 5 grant, 02 is Year 6, 03 is Year 7, and 04 is Year 8). The letter designates the priority area (A = water quality, B = shellfish resources, C = land use/habitat protection, D = habitat restoration, E = education/outreach, and M = monitoring). Additional letter codes may be assigned if a project does not fall within one of the six priority areas. Finally, the last digit tracks individual projects for a specific funding year and priority area.

For example, 02-B-3 is the third shellfish project that was identified for the Year 6 grant; 04-A-1 is the first water quality project under the Year 8 grant.

#### **A. WATER QUALITY ACTIONS**

Several water quality actions will be funded by the Year 8 grant. Projects were identified by the Water Quality Team at its April 2003 meeting and approved by the Management Committee at its June 2003 meeting.

**Action Plan WQ-4A: Establish on-going training and support for municipal personnel in monitoring storm drainage systems for illicit connections**

- 04-A-1: Municipal storm drain surveys and monitoring: Coastal watershed municipalities have requested monitoring resources and technical assistance. The NHEP will provide up to \$10,000 in funds to DES to assist communities with storm drain monitoring, either as direct grants to communities or through specific training programs to be determined. Municipalities receiving funds for monitoring must generate a minimum of \$10,000 in matching funds.

**Action Plan WQ-4B: Assist coastal communities in completing and maintaining maps of sewer and stormwater drainage infrastructure systems**

- 04-A-2: Municipal Stormwater Mapping Grant Program: The NHEP will provide up to \$20,000 to DES to provide grants to competitively selected municipalities to map storm drain systems. Municipalities will provide a minimum of \$20,000 in matching funds for this task.

**Action Plan WQ-4C: Eliminate illicit connections in Seacoast communities**

- 04-A-3: Illicit Connection Identification and Elimination: The NHEP will provide up to \$20,000 to DES to provide grants to competitively select municipalities to identify and eliminate illicit connections. Municipalities will provide a minimum of \$20,000 in matching funds for this task. Implementation of this activity is also relevant to NHEP Management Plan actions WQ-7, and SHL-1.

**Action Plan WQ-7: Provide incentives to fix or eliminate illegal direct discharges such as grey water pipes, failing septic systems, and agricultural runoff**

- 04-A-4: Direct Discharge Elimination Project: The NHEP will provide up to \$10,000 to a municipal project that eliminates direct discharges of contaminants into surface waters. The municipality receiving funding must provide a match of at least \$10,000; however it is anticipated that significantly more match could be provided since these types of projects typically involve expensive construction activities. The project to be funded will be selected by the Water Quality Team and approved by the Management Committee.
- 03-A-5: Spur Road Direct Discharge Elimination Project: The City of Dover will coordinate the connection of several homes on Spur Road in Dover to a private sanitary sewer system. These homes located on the Bellamy River have substandard septic systems and are suspected pollution sources. Funds will ensure that the homeowners connect to a sanitary sewer system instead of installing replacement septic systems or holding tanks that could potentially continue contributing pollution to the Bellamy River. Up to \$15,000 of NHEP funds (Year 7 grant funds) will be provided for the project and

matched by \$45,000 of private funds.

**Action Plan WQ-13: Provide information to citizens of the coastal watershed related to septic systems to help improve water quality**

04-A-5: Septic System Outreach: The NHEP completed most tasks associated with this Action Plan in 2002 and 2003. NHEP staff will seek additional opportunities to provide septic system maintenance information and materials to citizens in 2004. The materials will be distributed through the mechanisms outlined in this action plan, including direct mailings and outreach through real estate offices, media, town clerks, and Great Bay radio. Activities in 2004 will complete this action plan, although it may be revisited over time to reach additional residents. Outreach materials have already been produced, so no additional costs are anticipated.

**B. SHELLFISH ACTIONS**

The Year 6 and 7 grants will fund shellfish activities in 2004. Activities include support of the DES Shellfish Program and shellfish restoration and management activities.

**Action Plan SHL-5: Collect and monitor water quality samples to identify sources and reduce or eliminate contaminants**

03-B-1: DES Shellfish Program Sanitary Surveys: NHEP funding for the NH DES Shellfish Program in 2004 was approved in the Year 7 Workplan. Up to \$50,000 of NHEP Year 7 funds will be provided to DES to implement the program, including routine water quality sampling, shoreline surveys, sanitary surveys, and pollution source elimination. At least \$50,000 in matching funds for the program will be provided by DES and outlined in the 2004 Memorandum of Agreement between the NHEP and DES.

**Action Plan SHL-7: Maintain an ongoing shellfish resource assessment program focusing on softshell clam and European and American oysters**

See 02-B-tbd & 03-B-tbd below

**Action Plan SHL-8: Develop and implement a plan for shellfish resource enhancement and habitat restoration activities to achieve a sustainable resource contributing to a healthy environment**

02-B-tbd & 03-B-tbd: Shellfish Resource Management: In the Year 6 and 7 Workplans, the NHEP allocated \$125,000 and \$100,000, respectively, for shellfish resource management projects. For several years, the Shellfish Team had not reached agreement on projects to fund or approaches to pursue. Recently, the Shellfish Team finalized plans for development of two Requests for Proposals (one for clams, one for oysters). Solicitations for projects will be

developed and issued by the NHEP in fall 2003. Projects will be sought for shellfish research and enhancement studies and will be implemented in the field in 2004 and 2005.

In addition, the NHEP Monitoring Plan includes assessment of shellfish resources for bed densities, standing stock, and disease. Monitoring activities and results will assist with implementation and evaluation of shellfish resource management activities.

**Action Plan SHL-14: Provide for direct citizen involvement in the NH shellfish management and decision making process**

04-B-1: Citizen involvement in shellfish program: At its February 2003 meeting, the Shellfish Team identified ways that citizen involvement in shellfish management activities can be enhanced. In 2003 and 2004, NHEP and Shellfish Team members will work to implement those actions, including advertising meeting and program activities on agency websites, Great Bay radio, or perhaps the clam hotline managed by Fish and Game. There is no cost associated with this activity.

**C. LAND USE/HABITAT PROTECTION ACTIONS**

Land use and habitat protection projects in 2004 will be funded with Year 7 grant funds (\$120,000 was reserved in the Year Seven Workplan for land use/habitat protection projects in 2003 and 2004). The Land Use/Habitat Protection Team discussed projects at its November 2002 team meeting and made recommendations to the NHEP Director, who in turn made recommendations to the Management Committee at its December 2002 meeting. The projects approved for funding from the Year 7 grant are described below:

**Action Plan LND-2: Implement steps to limit impervious cover and protect streams at the municipal level**

03-C-2: Site Planning Roundtable Pilot Project: This project will involve working with a community to implement a seven-step stream protection strategy, as outlined in the Center for Watershed Protection's *Site Planning for Urban Stream Protection*. The pilot community will complete all the steps required for review and modification of codes, regulations, and ordinances that impact water quality and watershed health. \$15,000 from the Year 7 grant is available for this project and must be matched with funds from the selected community. In addition, \$10,000 of Year 5 grant funds, which recently have been liquidated, will supplement the Year 7 funds. A pilot community will be chosen through a solicitation in 2003.

**Action Plan LND-5: Support the Natural Resource Outreach Coalition (NROC) municipal decision-maker land-use planning outreach method**

- 03-C-3: Support for NROC in 2004: The NHEP will provide \$25,000 of Year 7 funds for NROC in 2004. Funds will be used for the NROC Coordinator at UNH Cooperative Extension (\$15,000), and for three community implementation projects (\$10,000). Equivalent matching funds will be provided by UNH and participating communities. The NROC Coordinator convenes meetings of the NROC team, prepares and delivers presentations to communities, and provides support to participating communities to develop natural resource protection plans and projects. Three communities participating in NROC in 2004 will develop natural resource protection projects. The NROC team, including NHEP staff, must approve projects prior to initiation.
- 04-C-1: NHEP Support: In addition to providing financial support to NROC in 2004, NHEP staff will continue to be key participants in NROC by providing planning input and assistance at NROC meetings and subcommittee meetings, developing presentations, and developing a "Water Resources" module for presentations to communities in 2004. Implementation funding is not needed for this action; NHEP staff will complete the work.

**Action Plan LND-9B: Reduce the quantity, improve the quality, and regulate the timing of stormwater flow into tidal wetlands through changes to the NH DES Site Specific Program**

- 03-C-4: Stormwater management and regulation research: The NHEP Planning Technician will provide assistance to the NH DES Site Specific Program by conducting research that will aid in the review and revision of program regulations. Research will include winter construction rules, best management practices, and stormwater treatment technologies that are more protective of wetlands. The Planning Technician will present findings to the Site Specific Program Rules Advisory Committee for its consideration in revising the regulations in 2004. This project also is relevant to LND-9A and LND-21.

**Action Plan LND-14: Develop and implement an outreach program to encourage and assist communities in developing and adopting land use regulations to protect undisturbed shoreland buffers**

See 03-C-5 below

**Action Plan LND-15: Support land conservation efforts in shoreland areas**

See 03-C-5 below

**Action Plan LND-16: Improve enforcement of the state Comprehensive Shoreland Protection Act and other applicable shoreland protection polices through outreach efforts to local officials and shoreland property owners**



- 03-C-5: Shoreland Protection Projects: The NHEP will provide \$40,000 of Year 7 grant funds and \$20,000 of recently liquidated Year 5 grant funds in 2004 to improve the protection of shoreland property. Projects will be identified through a solicitation to be released in late 2003. Examples of projects include shoreland property owner education workshops, shoreland property inventories, strategic planning, and land acquisition. Organizations receiving funding for projects must provide a total minimum of \$60,000 in matching funds.

**Action Plan LND-27: Support the efforts of the Great Bay Resource Protection Partnership (GBRPP)**

- 03-C-6: Habitat Mapping Project: The NHEP will provide up to \$20,000 in funds to The Nature Conservancy, on behalf of the GBRPP, to conduct ecological inventories and habitat mapping for several Great Bay-area subwatersheds, including the Cocheco River (Dover section), Little Bay shoreline (Newington section), and Follet's Brook watershed. These activities will assist the GBRPP, municipalities, and conservation organizations target and prioritize lands for protection. The Nature Conservancy will identify an equivalent level of matching funds for the project. This project also relates to LND-15, LND-26, LND-29, and LND-34.

**Action Plan LND-29: Provide technical assistance in land protection and management to regional land trusts and municipal conservation commissions**

- 03-C-1: GRANIT Conservation Lands Data Update for the Coastal Watershed: NHEP is providing \$20,000 to UNH Complex Systems Research Center to update its conservation lands data layer in the GRANIT system to reflect the most current protected lands in the coastal watershed (NHEP's 42 community study area). A comprehensive update to the data layer has not been undertaken since the mid-1990s. Updated information will assist conservation planning activities by land trusts, municipalities, and other conservation groups throughout the coastal watershed. UNH is providing \$20,000 in matching funds for the project. This project is also relevant to LND-33 and the Monitoring Plan, which utilizes the conservation lands dataset for several environmental indicators.

**D. HABITAT RESTORATION ACTIONS**

Up to \$50,000 of the Year 8 grant funds will be used for on-the-ground restoration projects in 2004 and 2005. Specific projects have not been identified to date; however another project being funded with NHEP Year 5 and Year 6 grant funds through 2003 will yield a list of wetland restoration opportunities in all coastal watershed communities. Communities will use this inventory to identify and prioritize local restoration options, and it is anticipated the inventory will yield projects for NHEP to consider funding.

**Action Plan RST-2: Using the Coastal Method and other techniques, identify and restore additional restorable tidal wetlands**

See 04-D-1 and 04-D-2 below

**Action Plan RST-3: Continue to restore tidal wetlands listed in the Natural Resources Conservation Service report, *Evaluation of Restorable Tidal Marshes in New Hampshire***

See 04-D-1 and 04-D-2 below

**Action Plan RST-4: Identify and implement habitat restoration projects in other important non-tidal habitat areas, such as uplands and freshwater wetlands**

04-D-1 & 04-D-2: Specific restoration projects will be identified for the \$50,000 of available funding. At least two projects are anticipated. Selected projects must provide matching funds of at least \$50,000.

02-D-2 & 03-D-1: Pickering Brook Restoration Project: The NHEP is supporting this 42-acre saltmarsh restoration project in Greenland with funds from the Year 6 (\$25,000) and Year 7 (\$5,000) grants. The contractor for the project is Ducks Unlimited. Construction activities span the winter 2002-03 and 2003-04 construction seasons. Monitoring activities (both pre- and post-construction) were initiated in 2002 and will last through 2005, and make use of volunteer monitors recently trained in saltmarsh monitoring techniques alongside professional restoration ecologists.

**E. EDUCATION/OUTREACH ACTIONS**

The NHEP's education and outreach activities in 2004 will be implemented as part of a comprehensive communications strategy to be developed by the NHEP Project Assistant. Activities described below include those related to specific Management Plan Action Plans, as well as those that improve outreach and communications functions of the NHEP to support its mission.

**Action Plan EDU-3: Establish and fund a Technical Assistance Grant Program to promote and fund projects that support the NHEP *Management Plan***

Local Grants Program: The NHEP Management Committee places strong emphasis on empowering community partners. To this end, the NHEP will continue its Local Grants Program in 2004 and 2005. Projects will be solicited through Requests for Proposals in fall 2003 and fall 2004. Applicants will be required to relate their projects to implementation of specific action plans in the NHEP *Management Plan*. Year 8 grant funds will be used to fund projects in 2004 and 2005 (\$30,000 per year).

04-E-1: 2004 Local Grants Program: Projects will be determined in late 2003 pending proposal evaluation by a review team subcommittee of the Management Committee. \$30,000 of Year 8 grant funds will be available for selected projects, which will provide at least \$40,000 in matching funds.

04-E-2: 2005 Local Grants Program: Projects will be determined in late 2004 pending proposal evaluation by a review team subcommittee of the Management Committee. \$30,000 of Year 8 grant funds will be reserved for 2005 projects, which will provide at least \$40,000 in matching funds.

“Estuaries Month” Mini-grants: The NHEP will continue to provide mini-grants to partners for outreach activities occurring during estuaries month in 2003 and 2004 (September 27 to October 26, 2003; dates TBD in 2004). Up to \$200 each is available for up to 25 organizations in 2003 to support outreach activities relating to water quality, land protection, shellfish resources, and habitat restoration in the coastal watershed. Estuaries Month activities in 2003 and 2004 will be funded from previous year’s grants. NHEP will promote its partners’ activities during Estuaries Month through its website and its “Be Part of the Solution” campaign collateral.

01-E-8: 2003 Estuaries Month: The NHEP will award up to 25 \$200 grants (Year 5 funds).

02-E-8: 2004 Estuaries Month: The NHEP will award up to 25 \$200 grants (Year 6 funds).

#### **Action Plan EDU-1: Utilize the media to enhance educational efforts**

The NHEP will continue to produce periodic press releases to educate the public about coastal watershed issues and NHEP projects. In addition, the NHEP will continue to require grantees to create and submit at least one press release during the project period to describe the project and its relationship to the *Management Plan* and mentions NHEP funding for their activities.

#### **Action Plan EDU-4: Maintain and expand NHEP’s shoreland property owner database**

The NHEP Planning Technician has made additions to the database in 2002 and 2003. The database was used in 2003 to target mailings to shoreline property owners with septic systems. The database currently includes property owners in the tidal portions of the coastal watershed. It will be expanded to include all shoreland property owners in the watershed in the future. The NHEP will make the database available to partners for their related uses.

#### **Action Plan EDU-5: Support volunteer organizations active in water quality, habitat, or other estuarine watershed natural resource issues**

The NHEP will continue to expand its support of volunteer organizations in the coastal

watershed in 2004. Volunteer organizations are encouraged to participate in the Local Grants Program and other funding opportunities. In addition, NHEP's website will list opportunities for interested citizens to volunteer with local organizations.

### **General Outreach Activities**

The NHEP Project Assistant manages the outreach activities. Up to \$10,000 from the Year 8 grant will be reserved for general outreach activities in 2004. Specific activities that relate to NHEP's comprehensive communications strategy will be developed by the end of 2003. Activities that will be undertaken in 2004 to promote the NHEP and *Management Plan* implementation include:

Tidelines (published newsletter): In 2003, *Tidelines* was produced three times per year by the NHEP and NH Coastal Program. In 2004, the NHEP will continue to produce *Tidelines*. The NHEP is currently exploring the possibility of producing the newsletter annually, rather than three times per year.

Estuaries Update (electronic monthly newsletter): The NHEP will continue producing *Estuaries Update*, which was initiated in 2003. This monthly electronic newsletter provides information on the NHEP's meetings, projects, reports, and upcoming events. Anyone with email can sign up to receive the newsletter.

Website: A web design firm will complete its redesign of the website in 2003. In 2004, the Project Assistant will continue to maintain and further develop the NHEP website. The website will continue to be the primary means for people to access NHEP reports.

Coastal Watershed Forum: The NHEP Project Assistant and NH Coastal Program Outreach Coordinator will coordinate this annual event that invites partners to report on current natural resource projects in the coastal watershed.

NHEP Outreach/Education Team: The Project Assistant will reconvene the NHEP Public Outreach and Education team meetings in 2004. The Team will provide input on NHEP's outreach activities, strategic communications plan, and evaluation of activities.

### **F. MONITORING ACTIVITIES**

The NHEP Coastal Scientist oversees the development and implementation of NHEP's monitoring activities. Monitoring activities involve implementation of the Monitoring Plan, which outlines the methods and data for indicators that assess environmental objectives. Monitoring projects include annual NHEP-funded projects, which contribute data to NHEP's annual monitoring requirements, and special projects, which are one-time projects or are undertaken every 3-5 years. The NHEP has committed \$50,000 per year to its annual monitoring needs. Special projects will be pursued as needed, and as funds are available.

04-Staff-1: The NHEP Coastal Scientist will lead the implementation of NHEP's

monitoring activities in 2004. Specific work tasks will be developed as part of the 2004 NHEP/NH DES Memorandum of Agreement. Work tasks likely will include:

- Updating the NHEP Monitoring Plan
- Updating NHEP environmental indicator reports
- Updating the inventory of coastal and estuarine monitoring programs
- Developing and managing monitoring projects and other projects assigned by the NHEP Director, including shellfish restoration projects
- Overseeing the development and approval of Quality Assurance Project Plans for NHEP projects, where needed
- Providing support to the Technical Advisory Committee; convening quarterly meetings
- Participating in relevant NHEP meetings, including the Technical Advisory Committee, Shellfish Project Team, and Management Committee meetings

04-M-tbd: 2004 Annual Monitoring Projects: To be determined in Fall 2003. The NHEP Coastal Scientist will work with the Technical Advisory Committee to develop projects as part of the annual monitoring program. Up to \$50,000 from the Year 8 grant will be available for annual monitoring projects in 2004. An equivalent amount of matching funds will be provided by organizations implementing monitoring projects. TAC-approved projects will be presented to the Management Committee for consideration at its fall 2003 meeting.

02-M-tbd: 2004 Special Monitoring Projects: To be determined in Fall 2003. \$13,900 of Year 6 grant funds, which had been reserved for monitoring projects in 2003 but were not encumbered for projects, will be available for special projects in 2004. Special projects are one-time projects that supplement the annual monitoring program. An equivalent amount of matching funds will be provided by organizations implementing monitoring projects. TAC-approved projects will be presented to the Management Committee for consideration at its fall 2003 meeting.

## **G. UNDESIGNATED FUNDS**

Year 8 grant funds in the amount of \$50,000 are reserved for projects yet to be identified. Projects funded with these undesignated funds must provide \$200,000 in matching funds. This 1:4 matching ratio has been achieved for projects involving sewer and storm drain infrastructure upgrades to prevent pollution. Additional types of projects that might be pursued include major habitat restoration projects, land protection/acquisition projects, or partnership projects with the DES Oil Spill Response Section.

## **H. MATCHING FUNDS FOR IMPLEMENTATION ACTIVITIES**

In addition to matching funds generated through project implementation activities

identified above, the following sources will contribute matching funds (cash and in-kind services) to the NHEP to assist with project implementation.

- 04-Match-1: Seabrook Station corporate donation: Seabrook Station has contributed funding to the NHEP for six years. The financial support has provided funding for water quality studies and shellfish activities in Hampton-Seabrook Harbor. The NHEP will seek continued funding at a level of \$15,000 for 2004 activities.
- 04-Match-2: NH Office of State Planning (OSP) in-kind support: The OSP, as host agency for the NHEP, provides valuable in-kind services to aid the operation of the NHEP. In-kind support for the NHEP in 2004 is estimated at \$41,700, based on OSP state-funded staff time spent on NHEP activities in previous years. In-kind support estimates for 2004 include time spent on NHEP activities by the following OSP staff: graphic artist, computer specialist, business administrator, accountants, administrative assistant, assistant director, and director.
- 04-Match-3: Management Committee and Project Teams in-kind support: Members of the Management Committee, Technical Advisory Committee, and Project Teams provide valuable and critical support for operation of the NHEP and implementation of the *Management Plan*. The Management Committee meets quarterly, with additional periodic subcommittee meetings; the TAC meets 4-6 times per year; and Project Teams each meet 2-4 times per year. In-kind support for 2004 is estimated at \$10,000, based on actual hours committed to NHEP meetings by individuals in previous years. This estimate is conservative; it does not represent actual travel time or time spent on NHEP activities outside of meetings. Note – this estimate excludes time spent by committee and team members who serve in federally-funded positions.

The following table summarizes Year 8 grant funding for implementation activities. The complete NHEP Year 8 grant budget, including administrative costs, is presented in Section VII of the workplan.

<b>Workplan ID</b>	<b>Organization</b>	<b>NHEP Funds</b>	<b>Matching Funds</b>	<b>Total</b>
<b>Water Quality</b>				
04-A-1	DES Watershed Management Bureau	\$10,000	\$10,000	\$20,000
04-A-2	DES Watershed Management Bureau	\$20,000	\$20,000	\$40,000
04-A-3	DES Watershed Management Bureau	\$20,000	\$20,000	\$40,000
04-A-4	Municipality TBD	\$10,000	\$10,000*	\$20,000
<b>Restoration</b>				
04-D-1	TBD – Restoration project	\$25,000	\$25,000*	\$50,000
04-D-2	TBD – Restoration project	\$25,000	\$25,000*	\$50,000
<b>Education &amp; Outreach</b>				
04-E-1	TBD – Local Grants in 2004	\$30,000	\$40,000	\$70,000
04-E-2	TBD – Local Grants in 2005	\$30,000	\$40,000	\$70,000
04-E-3	TBD – Activities in 2004	\$10,000	---	\$10,000
<b>Monitoring</b>				
04-Staff-1	Coastal Scientist – DES	\$60,000	---	\$60,000
04-M-TBD	TBD – Annual mon. projects	\$50,000	\$50,000	\$100,000
<b>Undesignated</b>				
04-TBD	Projects TBD	\$50,000	\$200,000	\$250,000
<b>Matching</b>				
04-Match-1	Seabrook Station donation	---	\$15,000	\$15,000
04-Match-2	NH OSP in-kind	---	\$41,700	\$41,700
04-Match-3	Mgmt Comm/Project Teams	---	\$10,000	\$10,000
<b>Total</b>		<b>\$340,000**</b>	<b>\$506,700</b>	<b>\$846,700</b>

\* Likely to generate a higher amount of matching funds than indicated.

\*\* The total for NHEP Year 8 grant funds including administrative costs is \$506,685.

## **Section VI**

### **Project Management/Administration**

The Office of State Planning will continue to host and administer the NHEP. Project staff and the project office are maintained in Portsmouth. Project management responsibilities and associated expenses are detailed below.

#### **NHEP Staff (salary and benefits) - \$127,540**

Project Director (NH Office of State Planning): The Project Director is responsible for ensuring that the NHEP meets all EPA requirements, all reporting requirements are fulfilled on time, annual workplans and quarterly reports are developed, project solicitations and contracts are developed, and for general administration of the project. This is a full time position. Salary and benefits for this position in 2004 will be paid from the Year 8 grant (\$63,430).

Project Assistant/Outreach Coordinator (NH Office of State Planning): This staff person assists the Director with all aspects of project implementation. Responsibilities include implementing selected outreach-related action plans from the NHEP Management Plan, developing and implementing a communications strategy, managing the Local Grants Program, and assisting the Director with contracting and grants management for other pass-through funding. This is a full time position. Salary and benefits for this position in 2004 will be paid from the Year 8 grant (\$58,910).

Coastal Watershed Scientist (NH Department of Environmental Services): The position is responsible for development and implementation of the NHEP Monitoring Plan, including collection, analysis, and reporting of environmental indicator data. The Coastal Watershed Scientist will oversee NHEP contracts involving monitoring activities, shellfish enhancement projects, and other assigned projects, and provide the NHEP Director with progress reports. Specific work tasks are developed in an annual Memorandum of Agreement for the position. The NHEP pays for 75% of the costs of the position; NH DES pays for 25% of the costs. The NHEP's funding for this position in 2004, including salary and benefits, is covered by the Year 8 grant (\$60,000)\*.

Planning Technician (NH Office of State Planning): This staff person conducts data entry for the NHEP Program Tracking database, maintains the shoreland property owners database, manages Estuaries Month grants, compiles information for reports, and conducts implementation projects and research identified by the Director. This position is part-time (~.75 FTE). The Year 7 grant is supporting this position through the beginning of 2004.

Executive Secretary (NH Office of State Planning): This staff person manages the office and provides administrative and programmatic support such as organizing mailings, planning meetings, recording meeting minutes, and ordering office supplies. The NHEP

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\* The NHEP funds for the Coastal Watershed Scientist position, which is located at NH DES, are "pass-through" funds and are included in "implementation" rather than "administrative" costs.



funds a portion of this position (~.25 FTE). NHEP funding for this position in 2004 will be paid from the Year 8 grant (\$5,200).

#### **NHEP Office - \$23,300**

The NHEP office will be maintained at 152 Court Street in Portsmouth. Office expenses include: Rent (\$9,200); Telephone/Fax (\$4,000); Email (\$600); Postage (\$2,500); Copying/Supplies (\$3,000); Equipment (\$3,000); and Outreach Supplies (\$1,000).

#### **NHEP Administration - \$3,845**

Administrative costs include indirect/overhead (\$3,335) and State of NH audit (\$510).

#### **NHEP Travel - \$12,000**

Travel funds from the Year 8 grant will be applied to out-of-state travel (\$10,000) and in-state travel (\$2,000) for staff.

Summary of anticipated out-of-state travel costs in 2004:

<b>Date</b>	<b>Meeting</b>	<b>Location</b>	<b>NHEP Representative</b>	<b>Total Cost</b>
03/04	National ANEP/EPA Meeting	Washington, DC	Director Project Assistant Coastal Scientist Mgmt Comm Member	\$4,500
10/04	National ANEP/EPA Meeting	TBD	Director Project Assistant Coastal Scientist	\$3,500
TBD	NEP Outreach/Education Meeting	TBD	Project Assistant	\$1,000
TBD	Other	TBD	TBD	\$1,000
			<b>Total Travel</b>	<b>\$10,000</b>

#### **In-Kind Match - \$51,700**

NH Office of State Planning will provide \$41,700 of in-kind match in 2004 from state-paid staff time for NHEP administration, including time spent on NHEP activities by the OSP computer specialist, business administrator, accountants, administrative assistant, assistant director, and director. The 2004 estimate is based on OSP state-funded staff time spent on NHEP support activities in previous years.

The NHEP Management Committee, Technical Advisory Committee, and Project Teams will provide \$10,000 of in-kind match in 2004. This in-kind support estimate is based on actual hours committed to NHEP meetings by individuals in previous years. This estimate is conservative; it does not represent actual travel time or time spent on NHEP activities outside of meetings. Note – this estimate excludes time spent by committee and team members who serve in federally-funded positions.

## Section VII Year 8 Grant Budget

Activity	NEP \$	MATCH \$	TOTAL \$
<b>MANAGEMENT PLAN IMPLEMENTATION</b>	<b>\$340,000</b>	<b>\$455,000</b>	<b>\$795,000</b>
Water Quality Actions	\$60,000	\$60,000	\$120,000
Restoration Actions	\$50,000	\$50,000	\$100,000
Outreach/Education Actions	\$70,000	\$80,000	\$150,000
Monitoring Activities*	\$110,000	\$50,000	\$160,000
Undesignated Funds	\$50,000	\$200,000	\$250,000
Seabrook Station Donation	\$0	\$15,000	\$15,000
<b>PROJECT ADMINISTRATION</b>	<b>\$166,685</b>	<b>\$51,700</b>	<b>\$218,385</b>
Staff: Director (salary & benefits)	\$63,430	\$0	\$63,430
Staff: Project Assistant (salary & benefits)	\$58,910	\$0	\$58,910
Staff: Secretary (part-time salary)	\$5,200	\$0	\$5,200
Staff: OSP In-kind Match	\$0	\$41,700	\$41,700
Staff: Mgmt Committee In-kind Match	\$0	\$10,000	\$10,000
Office: Rent	\$9,200	\$0	\$9,200
Office: Phone/Fax	\$4,000	\$0	\$4,000
Office: Email	\$600	\$0	\$600
Office: Postage	\$2,500	\$0	\$2,500
Office: Copying/Supplies	\$3,000	\$0	\$3,000
Office: Outreach Supplies	\$1,000	\$0	\$1,000
Office: Equipment	\$3,000	\$0	\$3,000
Travel: Out-of-state	\$10,000	\$0	\$10,000
Travel: In-state	\$2,000	\$0	\$2,000
Admin: Audit	\$ 510	\$0	\$510
Admin: Indirect	\$3,335	\$0	\$3,335
<b>TOTAL</b>	<b>\$ 506,685</b>	<b>\$ 506,700</b>	<b>\$1,013,385</b>

\* Includes \$60,000 to fund the NHEP/DES Coastal Scientist position in 2004.

## **Appendix 1**

### **Year 5, 6, and 7 Project Information**

The following table describes all of the implementation projects developed to date with Year 5, 6, and 7 funding. Information is generated from the NHEP project tracking database, which is used to record all NHEP projects funded with “pass-through” money (i.e., money that is under contract). The following information is provided:

**Workplan identification number**

**Project activity**

**Deliverables or products**

**Contractor/Organization**

**Relevant Action Plan (primary, plus other relevant plans)**

**Project start and end dates**

**NHEP funds for the project**

**Matching funds**

**Other project funds**

## Projects Initiated Since 1/01/01

Workplan ID	Project Activity	Deliverable/Product	Contractor/Org.	Relevant Action Plan	Start Date	End Date	NHEP Funds	Match	Other Funds
01-A-1	Municipal training on stormwater infrastructure maintenance	2 Workshops and Data	NH DES Watershed Assistance Section	WQ-04A, WQ-18	3/14/2001	6/30/2003	\$6,705.00	\$3,600.00	
01-A-10.1	Hampton/Seabrook Harbor Wet Weather Bacterial Loading Study to Support TMDL	Final Report - data used for the TMDL	NH DES Watershed Assistance Section	SHL-02, SHL-05, WQ-05, WQ-06	4/17/2002	12/31/2002	\$10,320.00	\$0.00	
01-A-10.2	Volunteer assistance for Hampton Harbor Wet Weather Sampling	Data Collection & Final Report	UNH Great Bay Coast Watch	SHL-05, WQ-05	5/15/2002	12/31/2002	\$1,230.00	\$0.00	
01-A-10.3	Little Harbor Wet Weather Field Evaluation for TMDL support	Final report - data used for the TMDL	NH DES Watershed Assistance Section	Monitoring, SHL-02, SHL-05, WQ-05, WQ-06	1/1/2003	6/30/2002	\$5,200.00	\$0.00	\$15,000.00
01-A-2-a	DES storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	3/14/2001	12/31/2002	\$15,056.00	\$0.00	
01-A-2-b.1	Town of Hampton storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	3/14/2001	12/31/2002	\$9,000.00	\$1,760.00	
01-A-2-b.2	Somersworth storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	3/14/2001	12/31/2002	\$10,000.00	\$38,000.00	
01-A-2-b.3	Town of Newmarket storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	1/1/2002	12/31/2002	\$8,996.00	\$5,998.00	
01-A-2-b.4	Town of Exeter storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	1/1/2002	12/31/2002	\$12,020.00	\$8,260.00	
01-A-2-b.5	City of Rochester storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	1/1/2002	12/31/2002	\$11,000.00	\$7,300.00	
01-A-2-b.6	Town of Durham storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	1/1/2002	12/31/2002	\$0.00	\$0.00	
01-A-2-b.7	Town of Seabrook storm sewer mapping	Electronic maps	NH DES Watershed Assistance Section	WQ-04B	1/1/2002	12/31/2002	\$5,605.00	\$3,750.00	
01-A-3	Identify and eliminate illicit connections	Pollution elimination	NH DES Watershed Assistance Section	WQ-04C	3/14/2001	12/31/2002	\$60,103.00	\$60,000.00	
01-A-4-a	2001 Shoreline Surveys	Final Report	NH DES Shellfish Program	WQ-05	3/14/2001	12/31/2001	\$5,750.00	\$0.00	

01-A-4-b	Volunteer Support for Shoreline Surveys	Final Report	UNH Great Bay Coast Watch	EDU-05, WQ-05	4/11/2001	12/31/2001	\$9,400.00	\$4,933.50	
01-A-4-c	2002 Shoreline Surveys	Final Report	NH DES Shellfish Program	WQ-05	1/1/2002	12/31/2002	\$18,464.00	\$0.00	
01-A-4-d	2002 Lab Analyses	Final Report	NH DES Shellfish Program	WQ-05	1/1/2002	12/31/2002	\$5,700.00	\$10,000.00	
01-A-6-a	Stormwater Treatment Technology Evaluation	Final Report	NH DES Watershed Assistance Section	WQ-08	3/14/2001	12/31/2002	\$55,000.00	\$0.00	
01-A-6-b	Innovative Stormwater Treatment/BMP Manual	Manual - Printed copy and Website version	NH DES Watershed Assistance Section	WQ-08	10/24/2001	12/31/2002	\$3,500.00	\$4,550.00	
01-A-7	Revision and Outreach for Green Book	Manual and Workshops	Rockingham County Conservation District	EDU-03, WQ-09, WQ-10, WQ-18	5/9/2001	6/30/2003	\$7,000.00	\$10,000.00	
01-A-8	Septic System Workshops	Workshops and Outreach Materials	Granite State Designers & Installers Assoc.	EDU-03, LND-19, WQ-13, WQ-14	4/11/2001	12/31/2001	\$4,700.00	\$7,286.00	
01-A-9	Storm Drain Stenciling Community Projects	~1,000 Drains Stenciled	UNH SeaGrant	EDU-03, WQ-19	5/9/2001	6/30/2003	\$9,965.00	\$5,040.00	
01-Admin-1	Grant Writer for Monitoring Projects	Additional funding	ANEP	Monitoring	6/1/2003	12/31/2003	\$500.00	\$0.00	
01-B-1-a	2001 Program Administration	Final Report	NH DES Shellfish Program	SHL-01	3/14/2001	12/31/2001	\$3,340.00	\$0.00	
01-B-1-b	Hampton Harbor Dry Weather Study	Final Report	NH DES Shellfish Program	SHL-01, SHL-02, SHL-05	3/14/2001	12/31/2001	\$1,650.00	\$0.00	
01-B-1-c	2001 Miscellaneous Pollution Studies	Final Report	NH DES Shellfish Program	SHL-01, SHL-04	3/14/2001	12/31/2001	\$7,180.00	\$0.00	
01-B-1-d	Clam Purging Study	Final Report	UNH Jackson Estuarine Lab	SHL-01	6/26/2001	12/31/2002	\$2,630.00	\$0.00	
01-B-1-e	2002 Program Administration'	Final Report	NH DES Shellfish Program	SHL-01, SHL-04	1/1/2002	12/31/2002	\$19,421.00	\$0.00	
01-B-1-f	2002 Miscellaneous Pollution Studies	Final Report	NH DES Shellfish Program	SHL-01, SHL-04, SHL-05	1/1/2002	12/31/2002	\$3,145.00	\$0.00	
01-B-1-g	2002 Tributary Analysis	Final Report	NH DES Shellfish Program	SHL-01, SHL-04, SHL-05	1/1/2002	12/31/2002	\$6,750.00	\$0.00	
01-B-1-h	Microbial Source Tracking for Stormwater Pipes	Final Report	NH DES Shellfish Program	SHL-02, SHL-05	1/1/2002	12/31/2002	\$3,525.00	\$0.00	

01-B-1-I	Comprehensive Report for Microbial Source Tracking	Final Report	NH DES Shellfish Program	SHL-02, SHL-05	1/1/2003	6/30/2003	\$3,275.00		
01-B-2-a	2001 Ambient Monitoring of Shellfish Growing Waters	Final Report	NH DES Shellfish Program	SHL-05	3/14/2001	12/31/2001	\$2,200.00	\$0.00	
01-B-2-b	Analysis of Shellfish Program Samples	Final Report	NH DHHS	SHL-01, SHL-05	2/14/2001	12/31/2001	\$15,880.00	\$37,420.00	
01-B-2-c	Analysis of Shellfish Program Samples	Final Report	UNH Jackson Estuarine Lab	SHL-01, SHL-05	6/26/2001	12/31/2002	\$5,000.00	\$0.00	
01-B-2-d	2002 Ambient Monitoring and Emergency Sampling	Final Report	NH DES Shellfish Program	SHL-01, SHL-05	1/1/2002	12/31/2002	\$3,000.00	\$0.00	
01-B-3-a	2001 PSP Monitoring	Final Report	NH DES Shellfish Program	SHL-06	3/14/2001	12/31/2001	\$2,300.00	\$0.00	
01-B-3-b	2001 PSP Sample Analysis	Final Report	NH DHHS	SHL-06	2/14/2001	12/31/2001	\$6,200.00	\$6,200.00	
01-B-3-c.1	Mussel Toxin Monitoring	Final Report	NH DES Watershed Assistance Section	SHL-06	6/26/2001	12/31/2002	\$6,560.00	\$0.00	
01-B-3-d.1	Clam and Oyster Toxic Monitoring	Final Report	NH DES Watershed Assistance Section	SHL-06	6/26/2001	12/31/2002	\$6,560.00	\$0.00	
01-B-3-d.2	Clam and Oyster Toxic Contaminant Analysis	Final Report	UNH Jackson Estuarine Lab	SHL-06	6/26/2001	12/31/2002	\$3,440.00	\$0.00	
01-B-3-e	2002 Toxin/biotoxin Monitoring	Final Report	NH DES Shellfish Program	SHL-06	1/1/2002	12/31/2002	\$3,000.00	\$0.00	
01-B-4-a	Monitor Oyster Diseases - MSX and Dermo	Final Report	NH F&G Marine Division	SHL-07	11/1/2001	6/30/2003	\$4,000.00	\$0.00	
01-B-4-b	Mapping Oyster Beds	Final Report	NH F&G Marine Division	SHL-07	11/1/2001	6/30/2003	\$14,000.00	\$0.00	
01-B-5-a	2001 Citizen Participation in Shellfish Resource Decisions	Team Meeting	NHEP Shellfish Team	SHL-14	1/1/2001	12/31/2001	\$0.00	\$0.00	
01-B-6	Discussion of Aquaculture Barriers	Team Meeting	NHEP Shellfish Team	SHL-15	1/1/2001	12/31/2001	\$0.00	\$0.00	
01-C-10	Conservation Commission Circuit Rider Pilot Program in 2002	Training/Meetings	Rockingham Planning Commission	LND-14, 15, 16, 25, 25B, 25C, 25D, 29, 32, 34, 36	5/15/2002	6/30/2003	\$12,138.00	\$0.00	
01-C-11	Groundwater Sustainability Study	Well Survey Data & Final Report	NH DES/NH Geological Survey	LND-18	10/9/2002	6/30/2003	\$25,000.00	\$7,400.00	\$48,000.00

01-C-12	Oyster River Watershed Plan	Watershed Plan	Strafford Regional Planning Commission	LND-06, LND-06A	12/2/2001	3/30/2002	\$5,000.00		
01-C-13	Citizen Awareness of Arsenic Contamination in Private Bedrock Wells in Southeastern NH	Factsheet	USGS	LND-18, LND-19	5/15/2002	12/31/2002	\$5,000.00	\$5,000.00	\$58,000.00
01-C-1-a	Community Conservation Assistance Program/NROC	NROC Meetings & Presentations	UNH Cooperative Extension	LND-05, LND-34	5/23/2001	12/31/2002	\$10,000.00	\$5,000.00	
01-C-1-b	Growing Greener Initiative	Public Workshops	City of Dover	LND-05	2/15/2002	12/31/2002	\$5,446.00	\$3,105.00	
01-C-1-c	Squamscott Regional Growth Project	Meetings & Outreach Materials	Rockingham Planning Commission	LND-05	1/1/2001	12/31/2002	\$10,000.00	\$0.00	
01-C-2	Shoreland Protection Technical Assistance in Exeter River Watershed	Factsheet & Workshops	Rockingham Planning Commission	EDU-03, LND-14	5/9/2001	6/30/2002	\$15,400.00	\$8,650.00	
01-C-3	Shoreland Conservation Technical Assistance	Workshops	Rockingham County Conservation District	EDU-03, LND-15	5/9/2001	12/31/2002	\$15,000.00	\$11,500.00	
01-C-4	Shoreland Protection Act Program	8 Workshops	NH DES	LND-16	3/14/2001	12/31/2002	\$0.00	\$1,650.00	
01-C-5	Prime Wetland Evaluation and Designation	Outreach Materials and Training	Moose Mt. Regional Greenways	EDU-03, LND-25, LND-25B, LND-25C	5/9/2001	12/31/2002	\$10,000.00	\$3,495.00	
01-C-6-a	Land Conservation Education/Community Conservation Assistance Program	Final Report	UNH Cooperative Extension	EDU-03, LND-28, LND-32, LND-33, LND-36	5/23/2001	12/31/2002	\$10,000.00	\$5,000.00	
01-C-6-b	Land Conservation in Sagamore Creek and Berry's Brook	Maps	Seacoast Land Trust	LND-15, LND-32, LND-36	5/9/2001	3/30/2002	\$8,725.00	\$7,412.00	
01-C-7-a	Great Bay Resource Protection Partnership Support	Land Protection Projects	The Nature Conservancy	LND-26, LND-27	5/9/2001	6/30/2002	\$25,000.00	\$0.00	
01-C-7-b	Piscassic Watershed Habitat Modeling and Inventory	Maps and Final Report	The Nature Conservancy	LND-27, LND-33, LND-34	5/9/2001	6/30/2002	\$23,982.00	\$14,332.00	
01-C-8	Impervious Surface Estimations	Environmental Indicator Data & Final Report	UNH Complex Systems Research Center	LND-01, LND-02	4/17/2002	12/31/2002	\$21,485.00	\$6,514.00	

01-C-9	Municipal Assistance for Funding Land Protection Projects	Guidebook & Workshops	SPNHF/Center for Land Conservation Assistance	LND-28	5/15/2002	12/31/2003	\$14,400.00	\$0.00	
01-D-1	Juvenile Clam Mortality Study	Final Report	University of Maine Machias	RST-01	11/7/2001	12/31/2002	\$27,386.00	\$14,772.00	
01-D-2-a	Salt Marsh Restoration	2 Acres Restored	Town of Hampton	RST-02, RST-03	5/9/2001	12/31/2001	\$10,000.00	\$40,000.00	\$500,000.00
01-D-2-b	Pond Restoration Plan and Salt Marsh Monitoring	Final Report	Town of New Castle	RST-03, RST-04	5/9/2001	12/31/2002	\$7,500.00	\$3,543.00	
01-D-3	Inventory of Freshwater Wetland Restoration Opportunities	Database & Final Report	West Environmental	RST-04, RST-05, RST-06	1/1/2002	12/31/2002	\$30,000.00	\$0.00	
01-E-1	Stream Assessments	Volunteer Training	Cocheco River Watershed Assoc.	EDU-03, EDU-05	4/11/2001	3/30/2002	\$7,000.00	\$4,000.00	
01-E-2	NHEP Public Awareness Campaign	Posters, Radio Spot, Brochures	Garrand & Company	EDU-01	5/15/2002	12/31/2002	\$40,253.00	\$21,500.00	
01-E-4	2001 Estuaries Day Administration	Final Report	Rockingham Planning Commission	EDU-05	8/1/2001	10/31/2001	\$10,000.00	\$0.00	
01-E-5	Website Design	Project Terminated	Computer Express	EDU-01	5/1/2002	12/31/2002	\$9,600.00	\$0.00	
01-E-6	2002 Estuaries Month Support	18 Public Events	Rockingham Planning Commission	EDU-05	8/1/2002	12/31/2002	\$4,000.00	\$0.00	
01-E-7	Septic System Outreach	Mailing to Owners	NHEP Staff	WQ-13	7/1/2002	12/31/2002	\$0.00	\$0.00	
01-E-8	2003 Estuaries Month Support	Final Report	Rockingham Planning Commission	EDU-05	6/4/2003	12/31/2003	\$5,375.00	\$0.00	
01-M-1	Microbial Source Tracking	Final Report	UNH Jackson Estuarine Lab	Monitoring	6/26/2001	12/31/2002	\$45,000.00	\$40,000.00	
01-M-2	In-situ Data Loggers	Data & Final Report	UNH Jackson Estuarine Lab	Monitoring	6/26/2001	12/31/2002	\$20,000.00	\$0.00	
01-M-3	Enhanced Ambient Water Quality Monitoring	Final Report	NH DES Watershed Assistance Section	Monitoring	3/14/2001	12/31/2002	\$25,650.00	\$25,000.00	
01-M-4	QAPP Development for WWTF Study	QAPP	UNH Jackson Estuarine Lab	Monitoring, WQ-03	6/21/2001	12/31/2002	\$5,384.00	\$0.00	
01-Staff-1	NHEP Coastal Watershed Scientist 2001 & 2002	Staff Activities & Reports	NH DES Water Quality Section	Monitoring	3/14/2001	12/31/2002	\$120,654.00	\$39,051.00	
02-A-1	WWTP Pollutant Loading Study	Final Report	NH DES Watershed Assistance Section	Monitoring, WQ-01, WQ-03	2/20/2002	12/31/2003	\$33,990.00	\$34,130.00	



02-A-2	Illicit Connection Identification/Removal and Storm Drainage Mapping Grants	Electronic Maps	NH DES Watershed Assistance Section	WQ-04B, WQ-04C	2/20/2002	12/31/2003	\$50,000.00	\$50,000.00	
02-A-3.1	2002 Volunteer Support for Shellfish Program	Final Report	UNH Great Bay Coast Watch	EDU-05, SHL-05, SHL-06, SHL-14, WQ-05	2/20/2002	6/30/2003	\$10,045.00	\$10,045.00	
02-A-3.2	2003 Volunteer Support for Shellfish Program Activities	Final Report	UNH Great Bay Coast Watch	EDU-05, SHL-05, SHL-06, SHL-14, WQ-05	1/1/2003	12/31/2003	\$10,000.00	\$10,000.00	
02-A-4	Bracket Road Sewer Extension	Final Report	City of Portsmouth	WQ-07	2/20/2002	12/31/2003	\$30,000.00	\$170,000.00	
02-A-5	Stormwater Treatment Device Evaluation	Final Report	NH DES Watershed Assistance Section	WQ-08	2/20/2002	12/31/2003	\$20,450.00	\$15,000.00	
02-A-6	Septic System Outreach	Workshops & Materials	Granite State Designers & Installers Assoc.	LND-19, WQ-13, WQ-14	3/6/2002	12/31/2002	\$9,700.00	\$9,750.00	
02-A-6.1	Septic System Outreach	File Folders	Granite State Designers & Installers Assoc.	WQ-13	9/25/2002	12/31/2002	\$1,600.00	\$0.00	
02-A-7	Storm Drain Stenciling	Final Report	Town of Exeter	EDU-03, WQ-19	3/6/2002	6/30/2003	\$3,381.00	\$5,575.00	
02-A-8	Dennett Street Exfiltration/Illicit Discharge Elimination Project	Pollution Elimination	City of Portsmouth	WQ-07	8/14/2002	12/31/2003	\$35,000.00	\$280,525.00	
02-Admin-1	Development of Project Tracking Database	Database	New Horizons		1/5/2002	6/30/2002	\$6,480.00	\$0.00	
02-B-1	2002 PSP Sample Analysis	Final Report	NH DHHS	SHL-06	2/6/2002	12/31/2002	\$5,200.00	\$6,200.00	
02-B-1.1	2002 Analysis of Shellfish Program Samples	Final Report	NH DHHS	SHL-05	2/6/2002	12/31/2002	\$29,990.00	\$39,100.00	
02-B-1.10	Ambient Water Quality Analysis in 2003	Final Report	NH DHHS	SHL-01, SHL-04, SHL-06	4/2/2003	12/31/2003	\$15,732.00	\$34,788.00	
02-B-1.11	Shellfish Meat Coliform Testing in 2003	Final Report	NH DHHS	SHL-01, SHL-04, SHL-06	4/2/2003	12/31/2003	\$18,470.00	\$3,430.00	

02-B-1.12	Shellfish Tissue Monitoring for PSP in 2003	Final Report	NH DHHS	SHL-01, SHL-04, SHL-06	4/2/2003	12/31/2003	\$5,200.00	\$6,200.00	
02-B-1.2	Shellfish Program Admin in 2003	Final Report	NH DES Shellfish Program	SHL-01, SHL-04	3/19/2003	12/31/2003	\$14,520.00	\$50,000.00	
02-B-1.3	Water Quality Monitoring	Final Report	NH DES Shellfish Program	SHL-05	3/19/2003	12/31/2003	\$6,200.00	\$0.00	
02-B-1.4	Sanitary Surveys	Final Report	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$23,206.00	\$0.00	
02-B-1.5	Pollution Evaluation and Analyses	Final Report	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$3,240.00	\$0.00	
02-B-1.6	Wet Weather Sampling	Final Report	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$1,770.00	\$0.00	
02-B-1.7	Follow-up Pollution Source Identification	Final Report	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$2,250.00	\$0.00	
02-B-1.8	Hampton Harbor Dry Weather Sampling	Final Report	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$1,600.00	\$0.00	
02-B-1.9	Sanitary Surveys	Final Report	NH DES Shellfish Program	SHL-01, WQ-05	3/19/2003	12/31/2003	\$7,812.00	\$0.00	
02-B-2	Monitoring at 3 GulfWatch sites	Final Report	NH DES	Monitoring, SHL-06	3/19/2003	12/31/2003	\$5,400.00	\$0.00	
02-B-3	Shellfish Enhancement and Restoration Projects	TBD	TBD	RST-01		12/31/2005	\$125,000.00	\$0.00	
02-B-4	Citizen input to shellfish resource decisions 2002	Team Meetings	NHEP Shellfish Team	SHL-14	2/20/2002	12/31/2002	\$0.00	\$0.00	
02-B-4.1	Citizen input to shellfish resource decisions 2003	Team Meetings	NHEP Shellfish Team	SHL-14	3/19/2003	12/31/2003	\$0.00	\$0.00	
02-B-6	Shellfish Education and Outreach	Display, Clamming Workshop, and Newspaper Columns	Aquaculture Education Resource Center	EDU-02, EDU-05, SHL-09D, SHL-10, SHL-11, SHL-13	3/20/2002	3/31/2003	\$9,975.00	\$10,529.00	
02-B-7	Dockside Shellfish Aquaculture Project	Workshops & Shellfish Reseeding	Aquaculture Education Resource Center	EDU-01, EDU-03, EDU-05, SHL-15	3/5/2003	3/31/2004	\$10,000.00	\$13,850.00	
02-C-3.1	NROC Coordination in 2003	Meetings & Presentations	UNH Cooperative Extension	LND-05	1/1/2003	12/31/2003	\$12,650.00	\$12,650.00	\$80,000.00

02-C-3.2	NROC Community Projects in 2003	TBD	3 Communities TBD	LND-05	1/1/2003	12/31/2003	\$15,000.00	\$15,000.00	\$20,000.00
02-C-3.3	Squamscott Regional NROC Program	Meetings & Outreach Materials	Rockingham Planning Commission	LND-05	4/3/2002	12/31/2003	\$10,000.00	\$20,000.00	\$30,000.00
02-C-4	Hampton Harbor Groundwater Study	Final Report	UNH	LND-18	2/3/2002	12/31/2003	\$57,275.00	\$57,275.00	
02-C-5.1	Great Bay Resource Protection Partnership	Protection of 600+ acres	The Nature Conservancy	LND-26, LND-27	5/1/2002	6/30/2003	\$20,000.00	\$20,088.00	
02-C-5.2	Habitat Protection Technical Assistance	Maps, Data, and Workshops	NH F&G Nongame and Endangered Wildlife	LND-32, LND-34	4/3/2002	12/31/2003	\$15,000.00	\$19,320.00	\$1,470.00
02-C-5.3	Land Protection Transaction Fund	Land Protection Projects	SPNHF/Center for Land Conservation Assistance	LND-15, LND-29, LND-36	5/15/2002	12/31/2003	\$44,000.00	\$44,000.00	
02-C-5.4	Support for Municipal Land Protection Programs	Workshops and Guidebook	SPNHF/Center for Land Conservation Assistance	LND-28	5/15/2002	12/31/2002	\$10,300.00	\$10,500.00	
02-C-5.5	Outreach and Technical Assistance for Land Protection	Resource Maps	BearPaw Regional Greenways	LND-29, LND-32, LND-36	3/20/2002	12/31/2003	\$10,773.00	\$10,773.00	
02-C-5.6	Land Protection Assistance	Workshops	Rockingham Land Trust	LND-28, LND-36	3/6/2002	6/30/2003	\$9,500.00	\$13,020.00	
02-C-5.7	Land Conservation Assistance and Workshops	Workshops	Rockingham County Conservation District	LND-29, LND-33, LND-36	5/15/03	12/31/2003	\$6,400.00	\$6,900.00	
02-C-6	Conservation Commission Circuit Rider Pilot Program in 2003	Meetings & Land Protection Projects	Rockingham Planning Commission	LND-14, 15, 16, 25, 25B, 25C, 25D, 29, 32, 34, 36	5/15/2002	6/30/2003	\$5,800.00	\$3,070.00	
02-C-7	Resource Mapping in Greenland	Resource Maps	Seacoast Land Trust	EDU-03, LND-06, LND-15, LND-36	2/19/2003	12/31/2003	\$3,625.00	\$5,018.00	
02-C-8	Hampton Harbor Watershed - Land Protection	Resource Maps & Outreach Materials	Rockingham County Conservation District	EDU-03, LND-29, LND-33, LND-36	3/19/2003	3/31/2004	\$9,867.50	\$14,100.00	
02-C-9	Prime Wetlands Designation and Training	Maps, Data, and Workshops	Moose Mt. Regional Greenways	EDU-03, LND-25, LND-25B, LND-25D	3/5/2003	3/31/2004	\$10,000.00	\$20,000.00	

02-D-1	Freshwater Wetland Mitigation Inventory	Resource Maps & Inventory	West Environmental	RST-04, RST-05, RST-06			\$20,000.00	\$20,000.00	
02-D-2	Pickering Brook Restoration Project	Restoration of 42 Acres	Ducks Unlimited	EDU-05, Monitoring, RST-02, RST-06	5/21/2003	12/31/2004	\$25,000.00	\$40,000.00	\$79,509.00
02-E-1	2003 Local Grant program	Funded 7 Projects in 2003	NHEP	EDU-03	1/1/2003	12/31/2003	\$0.00	\$0.00	
02-E-1.1	Habitat Restoration Education Project	Curriculum	Portsmouth Middle School	EDU-03, EDU-05	2/19/2003	7/31/2003	\$5,725.00	\$3,300.00	
02-E-1.2	Alewife Festival 2003	Newspaper Articles	Exeter River LAC	EDU-02, EDU-03, EDU-05	2/5/2003	12/31/2003	\$5,250.00	\$7,672.00	\$7,000.00
02-E-1.3	Volunteer Training in 2003	Final Report	UNH Great Bay Coast Watch	EDU-03, EDU-05	3/19/2003	12/31/2003	\$5,000.00	\$5,000.00	
02-E-2.1	Shoreland Buffer Education	Workshops	Lamprey/Oyster River Watershed Association	EDU-03, EDU-05, LND-16	3/6/2002	12/31/2002	\$7,060.00	\$4,435.00	\$2,610.00
02-E-2.2	2002 Alewife Festival	Final Report	Exeter River LAC	EDU-03, EDU-05		12/31/2002	\$3,500.00	\$5,050.00	
02-E-3	Shoreland property owner database update	Database	NHEP Staff	EDU-04	1/1/2002	6/30/2002	\$0.00		
02-E-4	Design of the State of the Estuaries Report	Report Design	Idea Outfitters	EDU-01	5/21/2003	9/22/2003	\$3,925.00	\$0.00	
02-E-4.1	Printing of the State of the Estuaries Report	Report	TBD	EDU-01			\$6,075.00	\$0.00	
02-E-5	CCMP Implementation Report Card Production	Report	TBD	EDU-01			\$5,000.00	\$0.00	
02-E-6	State of the Estuaries Conference	Conference & Proceedings	NHEP	EDU-01			\$12,836.00	\$0.00	\$2,500.00
02-E-7	Website Design	New Website (508 compliant)	PixelMEDIA	EDU-01	5/5/2003	9/1/2003	\$15,000.00	\$0.00	
02-M-1	2004 Special Monitoring Projects TBD	TBD	TBD	Monitoring			\$13,900.00	\$13,900.00	
02-M-2	Eelgrass Mapping and Indicator Development	Final Report	UNH Jackson Estuarine Lab	Monitoring		12/31/2002	\$14,845.00	\$15,230.00	
02-M-3	Salmon Falls Data Sonde and Indicator Development	Final Report	UNH Jackson Estuarine Lab	Monitoring	5/15/2002	12/31/2002	\$3,683.00	\$3,734.00	

02-M-4	2003 Monitoring Projects: Shellfish Assessment, Nitrogen, Eelgrass	Final Report	UNH Jackson Estuarine Lab	Monitoring	2/19/2003	12/31/2003	\$41,200.00	\$41,200.00	
02-M-4.1	QAPPs for Monitoring Projects in 2003	QAPPs	UNH Jackson Estuarine Lab	Monitoring	2/19/2003	12/31/2003	\$5,000.00	\$0.00	
02-M-5	Oyster Disease Assessment	Final Report	NH F&G Marine Fisheries Division	Monitoring		12/31/2003	\$500.00	\$500.00	
02-M-6	Environmental Sensitivity Index Maps	Maps	NH DES Oil Spill Program	Monitoring, WQ-12A	3/19/2003	12/31/2003	\$40,000.00	\$130,000.00	
02-M-7	Ambient River Monitoring in 2003	Final Report	NH DES	Monitoring	3/19/2003	12/31/2003	\$9,000.00	\$0.00	
02-N/A	NHEP Smart Growth Initiative	Report, CD-ROM, & Workshops	NH OSP	LND-04, LND-06, 06A, 06B, 06C, 06D, 06E, 06F	10/1/2001	3/1/2003			\$130,000.00
02-Staff-1	NHEP Coastal Watershed Scientist 2003	Staff Activities & Reports	NH DES Water Quality Section	Monitoring	1/1/2003	12/31/2003	\$65,061.00	\$0.00	\$21,687.00
03-A-1	Storm Sewer Mapping Grants	Maps	NH DES Watershed Assistance Section	WQ-04A, WQ-04B, WQ-04C	3/19/2003	12/31/2004	\$40,000.00	\$40,000.00	
03-A-2	Illicit Connection Identification and Removal Grants	Pollution Elimination	NH DES Watershed Assistance Section	WQ-04A, WQ-04C	3/19/2003	12/31/2004	\$40,000.00	\$40,000.00	
03-A-3	Peirce Island Pool Direct Discharge Elimination Project - City of Portsmouth	Pollution Elimination	NH DES Watershed Assistance Section	WQ-04C, WQ-06, WQ-07	3/19/2003	12/31/2003	\$15,000.00	\$45,000.00	
03-A-4	Revise Stormwater Mgmt/Erosion Control Handbook and develop certification program	Handbook, Workshops, & Certification Program	NH DES Watershed Assistance Section	WQ-09, WQ-10	3/19/2003	6/30/2004	\$15,000.00	\$0.00	
03-B-1	DES Shellfish Program in 2004	Final Report	NH DES Shellfish Program	SHL-01, SHL-05, SHL-06	1/1/2004	12/31/2004	\$50,000.00	\$50,000.00	
03-B-2	Shellfish Enhancement and Restoration Projects TBD	TBD	TBD	RST-01, SHL-07		12/31/2003	\$100,000.00	\$100,000.00	
03-C-1	Update to GRANIT Conservation Lands Dataset	Data Update	UNH Complex Systems Research Center	LND-06, LND-29, LND-33	5/21/2003	3/31/2004	\$20,000.00	\$20,000.00	

03-C-4	Site Specific Program Research	White Paper	NHEP Staff	LND-09A, LND-09B, LND-21	5/1/2003	12/31/2003	\$0.00	\$0.00	
03-C-5	Shoreland Protection Projects TBD	TBD	TBD	LND-14, LND-15, LND-16			\$40,000.00	\$40,000.00	
03-D-1	Pickering Brook Restoration Project	Restoration of 42 Acres	Ducks Unlimited	EDU-05, Monitoring, RST-02, RST-06	5/21/2003	12/31/2004	\$5,000.00	\$20,000.00	

## Appendix 2 Leveraged Funds

The NHEP's grant funds leverage other funds for project implementation. Leveraged funds are separate from matching funds used to meet federal grant requirements. Leveraged funds are typically other federal funds used for project implementation or funds used to match those other federal funding sources (such funds cannot be counted as matching funds for the NHEP funds).

The NHEP has included information on leveraged funds in its project tracking database when the information has been readily available; however leveraged project funds have not been compiled and reported for all projects in the past. Leveraged funds will be tracked and recorded in the database for all future projects.

The following table presents leveraged funds from January 1, 2001 through May 31, 2003 for Year 5, 6, and 7 grants. In addition, the portion of the total leveraged to date that was generated during the annual period 6/1/02 to 5/31/03 is included. The NHEP's total annual leveraged funds for the previous period is \$478,166.

	<b>Year 5 Grant</b>	<b>Year 6 Grant</b>	<b>Year 7 Grant</b>	
<b>EPA Award</b>	\$1,042,400	\$1,078,300	\$510,000	
<b>Match Anticipated</b>	\$522,001	\$1,337,616	\$510,000	
<b>Match Generated to date</b>	\$503,225	\$289,935	\$15,000	<b>Total funds leveraged</b>
<b>Leveraged Funds through 5/31/03 (excludes match)</b>	<b>\$621,000</b>	<b>\$374,776</b>	<b>\$0</b>	<b>\$995,776</b>
<b>Leveraged Funds from 6/1/02 through 5/31/03 (excludes match)</b>	<b>\$106,000</b>	<b>\$372,166</b>	<b>\$0</b>	<b>\$478,166</b>

Additional information on leveraged resources and projects that generated leveraged funds from 6/01/02 through 5/30/03 is provided in the following table.

## NHEP Leveraged Resources Committed to Operations and Projects Over Past Year

**Reporting Period: June 1, 2002 - May 31, 2003**

CCMP or Workplan Activity	NEP Role	Leveraged <b>Federal</b>		Leveraged <b>State</b>		Leveraged <b>Local</b>		Leveraged <b>Private</b>		<b>Total Leveraging</b>
		Cash	In-kind	Cash	In-kind	Cash	In-kind	Cash	In-kind	
01-C-11: Groundwater supply study	Primary - project funder	\$48,000								\$48,000
01-C-13: Groundwater arsenic contamination study	Primary - project funder	\$58,000								\$58,000
02-C-3.1: Community Conservation Assistance Program/NROC coordinator	Primary - project funder	\$40,000			\$40,000					\$80,000
02-C3.2: NROC community grants	Primary - project funder	\$10,000					\$10,000			\$20,000
02-C-3.3: Squamscott Regional Growth Project/NROC	Primary - project funder	\$15,000					\$15,000			\$30,000
02-E-1.2: ERLAC Alewife Festival	Primary - project funder	\$3,500					\$3,500			\$7,000
02-E-6: State of the Estuaries Conference	Primary - project funder	\$2,500								\$2,500
Smart Growth Tool Kit: Achieving Smart Growth in NH	Primary - project funder	\$130,000								\$130,000
02-Staff-1: NHEP Coastal Scientist	Primary - project funder	\$21,687								\$21,687
02-C-5.2: Species and habitat mapping and conservation	Primary - project funder	\$1,470								\$1,470
02-D-2: Pickering Brook restoration and monitoring	Primary - project funder	\$39,600	\$10,000			\$5,021	\$23,888		\$1,000	\$79,509
<b>Totals</b>		<b>\$369,757</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$40,000</b>	<b>\$5,021</b>	<b>\$52,388</b>	<b>\$0</b>	<b>\$1,000</b>	<b>\$478,166</b>



## Appendix 3 Travel Report

The following table summarizes the out-of-state travel expenses incurred by the NHEP over the past year (July 1, 2002 through June 30, 2003).

<b>Date</b>	<b>Meeting/Event</b>	<b>Location</b>	<b>NHEP Representative</b>	<b>Total Cost</b>
10/02	ANEP/EPA National Meeting	Ocean City, MD	Jennifer Hunter, Director	\$1,150
10//02	Invasive Species Identification Training	Nahant, MA	Phil Trowbridge, Coastal Scientist	\$56
11/02	Marine Bioinvasions Conference	Boson, MA	Jennifer Hunter Phil Trowbridge Ann Reid, Project Team Member	\$103
12/02	Multivariate Statistics Course	Arlington, VA	Phil Trowbridge	\$1,825
12/02	Project Assistant Interview	Portsmouth, NH	Kate Sullivan, candidate from Montana	\$405
1/03	Coastal Tech Transfer Conference	Cocoa Beach, FL	Natalie Landry, Committee Member	\$733
3/03	ANEP/EPA National Meeting	Washington, DC	Jennifer Hunter Phil Trowbridge Dave Kellam, Project Assistant Peter Britz, Committee Member Brian Giles, Committee Member	\$4,671
			<b>Total Travel</b>	<b>\$8,943</b>